

November 30, 2005

Peter Van Alyea
Redwood Oil Company
455 Yolanda Avenue, Suite 200
Santa Rosa, CA 95404

Ground Water Monitoring Report
September 2005
Redwood Oil Service Station
1100 Bennett Valley Road
Santa Rosa, California
ECM Project #98-511-14

Dear Mr. Van Alyea:

This report provides the results of the quarterly ground water monitoring at the Redwood Oil Service Station located at 1100 Bennett Valley Road in Santa Rosa, California (Figure 1, Appendix A). Also included is the summery of operations and maintenance activities for the Ground Water Extraction (GWE) system operating at the site.

Ground Water Monitoring

On September 27, 2005, ECM personnel visited the site. Ground water elevations were measured and ground water samples were collected from the thirteen conventional monitoring wells (MW-4 through MW-14, MW-16, and MW-17) and each sample port in the multi-level monitoring well (MW-15). Ground water elevation was also measured in piezometer PZ-1 and a water sample was also collected from the domestic well located at 1020 Bennett Valley Road. The well locations are shown on Figure 2 (Appendix A).

Ground water levels were measured in all monitoring wells. Wells were also checked for the presence of free-phase hydrocarbons. Free-phase hydrocarbons were not observed in any of the wells. Wellheads and well vaults were observed to be in good condition. Water level data is shown in Table 1 (Appendix B) and a ground water elevation contour map is included as Figure 2 (Appendix A).

The ground water samples were forwarded under chain of custody record to Friedman and Bruya Inc. of Seattle, Washington for analysis. Analytical results for ground water are included in Table 2 (Appendix B). Ground water samples were collected in accordance with ECM Standard Operating Procedure - Ground Water Sampling (Appendix E). The chain of custody document

and laboratory analytical report are included as Appendix C. Water sampling data sheets are included in Appendix D. Purge water and decon rinseate were transferred to the ground water remediation system holding tank for treatment and permitted discharge.

Monitoring wells at the site have consistently been impacted by gasoline, diesel, BTEX constituents, and MTBE. Analytical results for this sampling event were typical of results for previous sampling events. Ground water flow was to the west at an approximate gradient of 0.03 ft/ft. Ground water gradient at the site is influenced by the ground water extraction system. Influence of the system can be seen on Figure 2 (Appendix A).

Wells MW-4 through MW-7 represent the most impacted area of the site due to their proximity to the former USTs. Contaminant concentrations were relatively high in the samples from wells MW-4, MW-6 and MW-7. The concentrations were typical of previous sampling events. Samples from well MW-5 have been consistently heavily impacted with gasoline, diesel, BTEX compounds, and the oxygenates MTBE and TBA. Samples collected during the September 2005 event were consistent with historical results. The oxygenate TAME was also detected in the sample from MW-5 at a concentration consistent with previous samples.

Wells MW-8 and MW-9 are located south of the site. Contaminant concentrations for samples from MW-8 and MW-9 have typically been low or below detection limits. Contamination in samples collected from MW-8 and MW-9 during the June sampling event increased slightly from previous sample results. Contaminant concentrations in the samples collected during the September 2005 event returned to levels consistent with historical results.

Wells MW-10, MW-11, and MW-12 are located to the west of the site. Analytical results for samples from MW-10 and MW-11 have consistently been low or below detection limits for all contaminants of concern. Contaminant concentrations in the sample from MW-10 and MW-11 were consistent with previous results.

Samples from MW-12 have fluctuated from high concentrations to concentrations below detection limits. The sample collected during this event contained significant concentrations of gasoline and BTEX compounds. Low concentrations of fuel oxygenates were also detected in the sample. Ground water elevation was decreased from the previous quarter and contaminant concentrations remained similar. There is no apparent correlation between ground water elevation and contaminant concentration in well MW-12.

Well MW-13 is located north of the site. Results for this quarter were higher than recent monitoring events for gasoline, BTEX compounds, and TBA in the sample from MW-13. No diesel or MTBE was detected in the sample. After decreasing significantly, contaminant concentrations returned to previously high levels for gasoline and BTEX constituents.

Well MW-14 is located to the west of the site. Analytical results for samples from MW-14 have

typically been moderate to high for gasoline, diesel, and BTEX constituents. Oxygenates have been detected at lower concentrations. Results for this sampling event were moderate and consistent with historical results.

Well MW-15 is installed to a depth of 150 ft bgs and contains four sample ports (30 - 40 ft, 60 - 70 ft, 83 - 93 ft, and 140 - 150 ft). Samples collected from each sample port were significantly impacted with gasoline, BTEX compounds, and MTBE. Samples from the 30 - 40 ft, 60 - 70 ft, and 140 - 150 ft sample ports were significantly impacted with diesel and TBA. Contaminant concentrations in samples from the 30 - 40 ft, 83 - 93 ft, and 140 - 150 ft, ports were consistent with previous samples. Concentrations in the sample from the 60 - 70 ft port were significantly higher than in previous samples. Well MW-15 was installed in April, 2005 and is scheduled for quarterly monitoring. Future monitoring events will further characterize contamination in the deep zones.

Wells MW-16 and MW-17 were installed in April, 2005 to evaluate groundwater in the 30 - 40 ft zone downgradient of the site. Low levels of contamination were detected in the initial samples collected in May, 2005. Samples collected during the June sampling event showed increased concentrations of gasoline and BTEX compounds. Samples from the September event were consistent with the May, 2005 samples. Future monitoring events will allow characterization of the 30 - 40 ft zone.

A domestic well at 1020 Bennett Valley Road was sampled on September 27, 2005. No contaminants of concern were reported in the sample.

This site has a ground water extraction and treatment system for remediation of impacted ground water. The system extracts ground water through three extraction wells, labeled EX-1, EX-2, and EX-3 on Figure 2, Appendix A. The system was off during the first two quarters of 2005 for final modifications and permit approval. The system has been reconfigured to handle free-phase product captured by the extraction system. Free-phase product was observed in the system transfer tank during the summer of 2004.

Remedial System Operation

An air sparge (AS) system was formerly operational at the site. A summary report describing the AS system was submitted in July 2000.¹ The AS system became operational on July 18, 2000 and was deactivated during the third quarter of 2004. A ground water extraction (GWE) system is currently operational at the site. A summary report describing the GWE system installation

¹

ECM, 2000, Air Sparge Investigation Report, 1100 Bennett Valley Road, Santa Rosa, California, September 13, 2000, 2 pages and 1 attachment.

was submitted in March 2004.² The GWE system became operational on December 5, 2003. After repairs and modifications the system was permanently activated on February 23, 2004.

On September 11, 2004, free product was detected in the system holding tank and the system was deactivated. The system was reconfigured to process free product under permit by the Santa Rosa Fire Department. Upon permit approval, the remediation system was reactivated on July 5, 2005 and has operated continuously since activation. Layout of the system treatment pad is shown in Figure 4 (Appendix A).

Analytic laboratory reports for water samples are included in Appendix C. Operation and maintenance field notes are presented in Appendix D.

GWE System Operation

The GWE system extracts ground water from three wells (EX-1, EX-2, and EX-3, Figure 3, Appendix A). EX-1 is 4 inches in diameter and 31 ft in depth. EX-2 and EX-3 are 6 inches in diameter and 40 ft in depth. Each well contains a top-loading pump which is 5 ft in length and set approximately 0.5 ft from the bottom of each well. Table 5 (Appendix B) provides flow totalizer readings for the GWE system. Between July 6, 2005 and October 27, 2005 a total of 1,218,827 gallons of ground water were extracted by the system. Flow rate for the system over the third quarter of 2005 varied from 1.4 to 10.7 gallons per minute (GPM). Table 4 (Appendix B) provides complete influent analytical results for the system.

GWE System Performance Evaluation

System performance may be measured by quantity of hydrocarbons removed. Since hydrocarbons have a very low solubility in water, mass of hydrocarbons removed by a ground water extraction system is typically low relative to the quantity of hydrocarbons sorbed to soil. Another measure of system performance is the system's ability to control the offsite migration of impacted groundwater

During the third quarter of 2005, a total of 1,218,827 gallons of ground water were extracted by the system (Table 5, Appendix B). Hydrocarbon removal is calculated using the influent concentrations provided in Table 4 (Appendix B). Influent stream samples were collected on July 6 and October 3, 2005. The concentrations of gasoline in the influent samples were 15,000 parts per billion (ppb) and 19,000 ppb, respectively. Diesel was not detected in either sample, though hydrocarbons (C8-C18), possible gasoline compounds in the TPH-diesel range, were

²

ECM, 2004, Groundwater Extraction System Installation Report, 1100 Bennett Valley, Santa Rosa, California, March 12, 2004, 6 pages and 6 attachments.

detected at 1,400 ppb in the July 6 sample and 2,000 ppb in the October 3 sample. Assuming the influent stream samples collected on July 6 and October 3, 2005 are typical for the quarter, then the mass of hydrocarbon removed by the GWE system during the quarter is approximately 73 kg. Cumulative totals for hydrocarbon removal are provided in Table 5 and Graph 1, Appendix B.

Water level measurements are now collected from thirteen conventional monitoring wells (MW-4 through MW-14, MW-16, and MW-17) and one piezometer (PZ-1) on a quarterly basis. Water level measurements were collected from the eleven monitoring wells and one piezometer on September 27, 2005. Water level measurements in monitoring wells and piezometer are used to evaluate GWE system performance in terms of drawdown and plume migration control. Figure 2 (Appendix A) shows ground water elevation in monitoring wells for September 27, 2005, and shows ground water elevation contours based on the measurements collected. It is inferred from the measurements that the extraction system is effectively preventing off-site migration.

Thank you for the opportunity to provide services to Redwood Oil Company. Please call if you have any questions.

Sincerely,
ECM Group



David Hazard
Environmental Scientist



Chris Bramer
Professional Engineer #C048846



- Attachments:
- A - Figures
 - B - Tables
 - C - Chain of Custody Document and Lab Analytical Reports
 - D - Water Sampling Data Sheets
 - E - Standard Operating Procedure

cc: Joan Fleck, North Coast Regional Water Quality Control Board

APPENDIX A

FIGURES

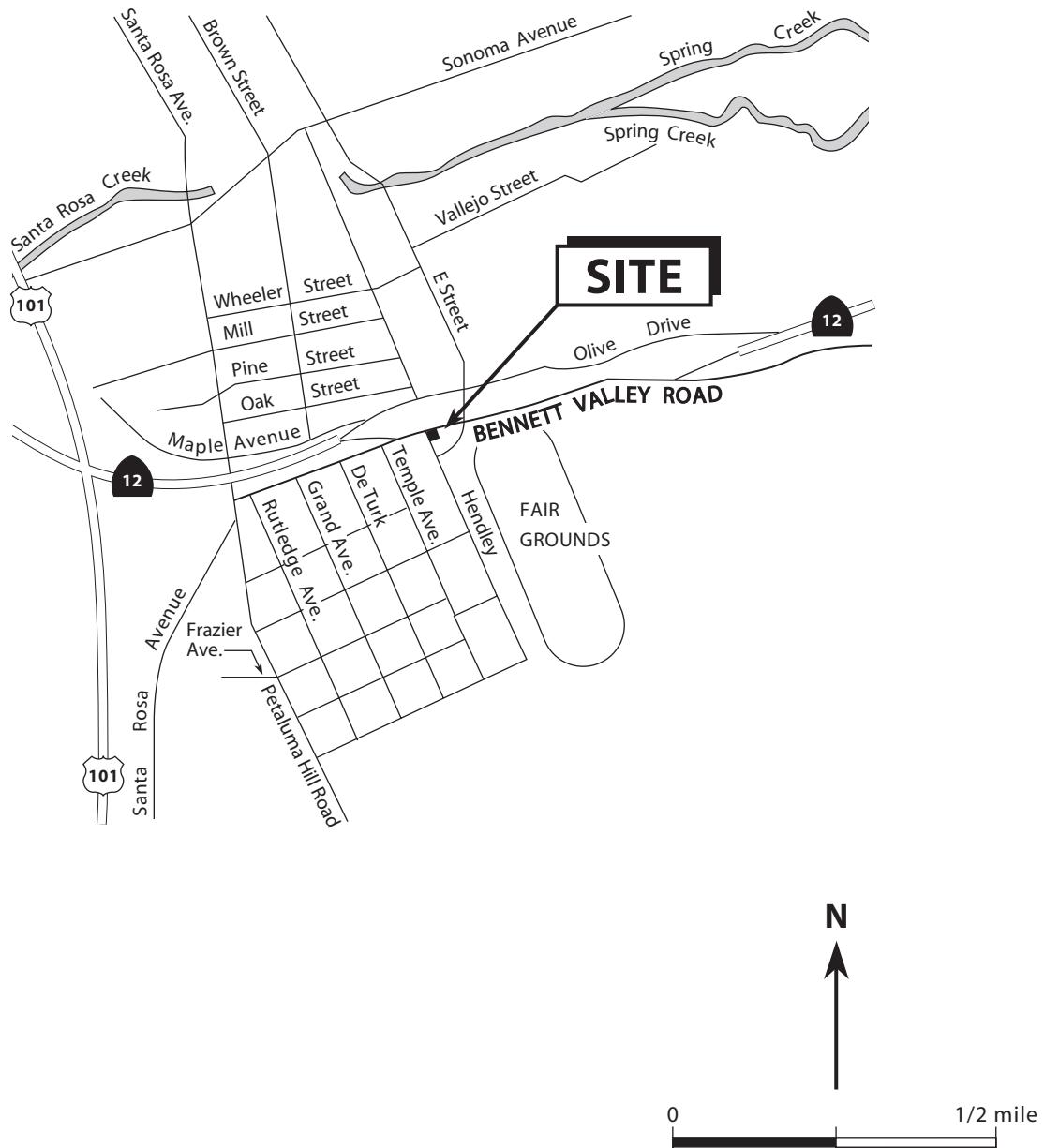


Figure 1. Site Location Map – Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Base map ref: Thomas Bros.

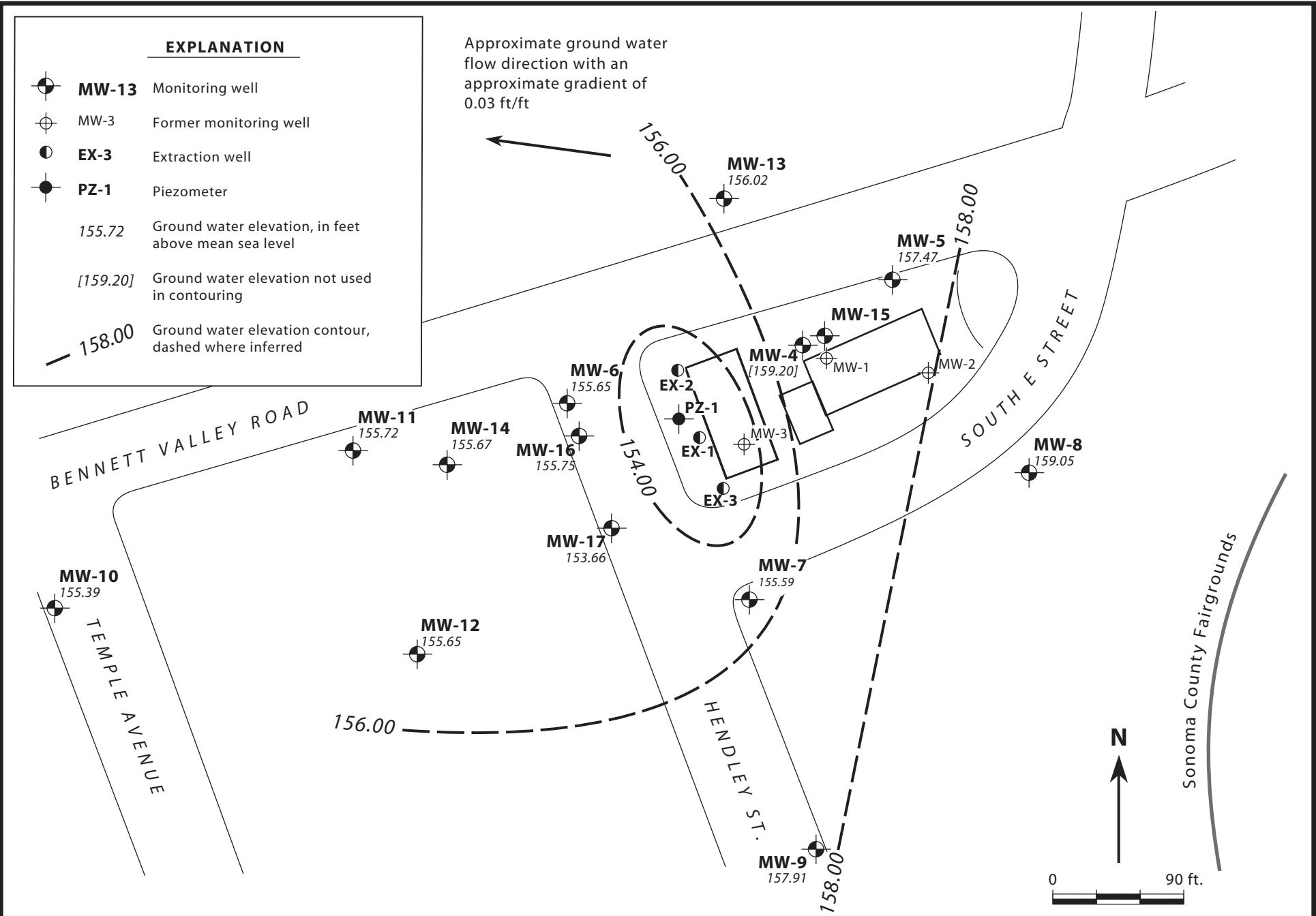


Figure 2. Monitoring Well Locations and Ground Water Elevation Contour Map - September 27, 2005 - Redwood Oil Service Station #106, 1100 Bennett Valley Road, Santa Rosa, California

EXPLANATION

- EX-3 Extraction well
- - - Piping trench
- PZ-1 Piezometer point

BENNETT VALLEY ROAD

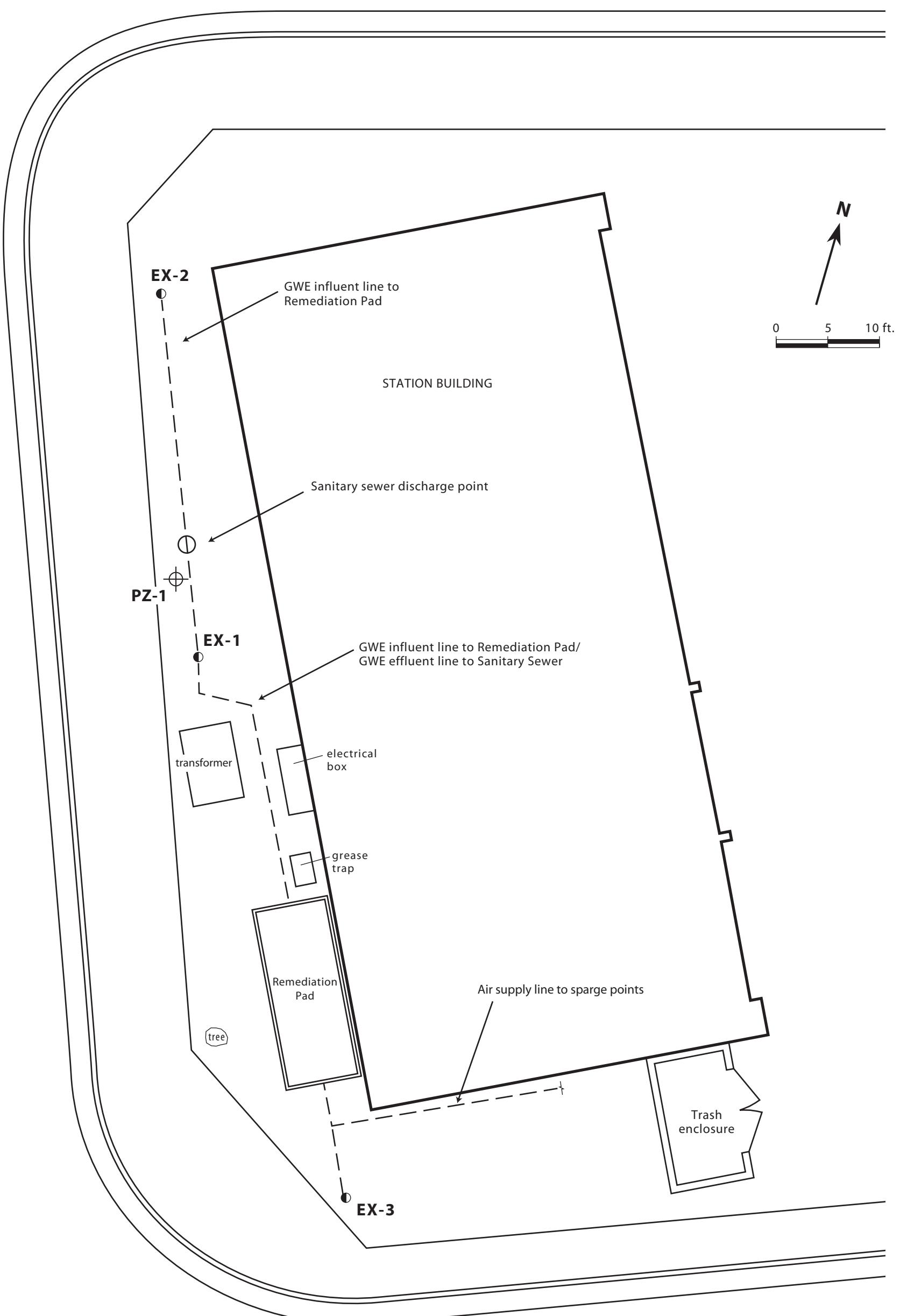
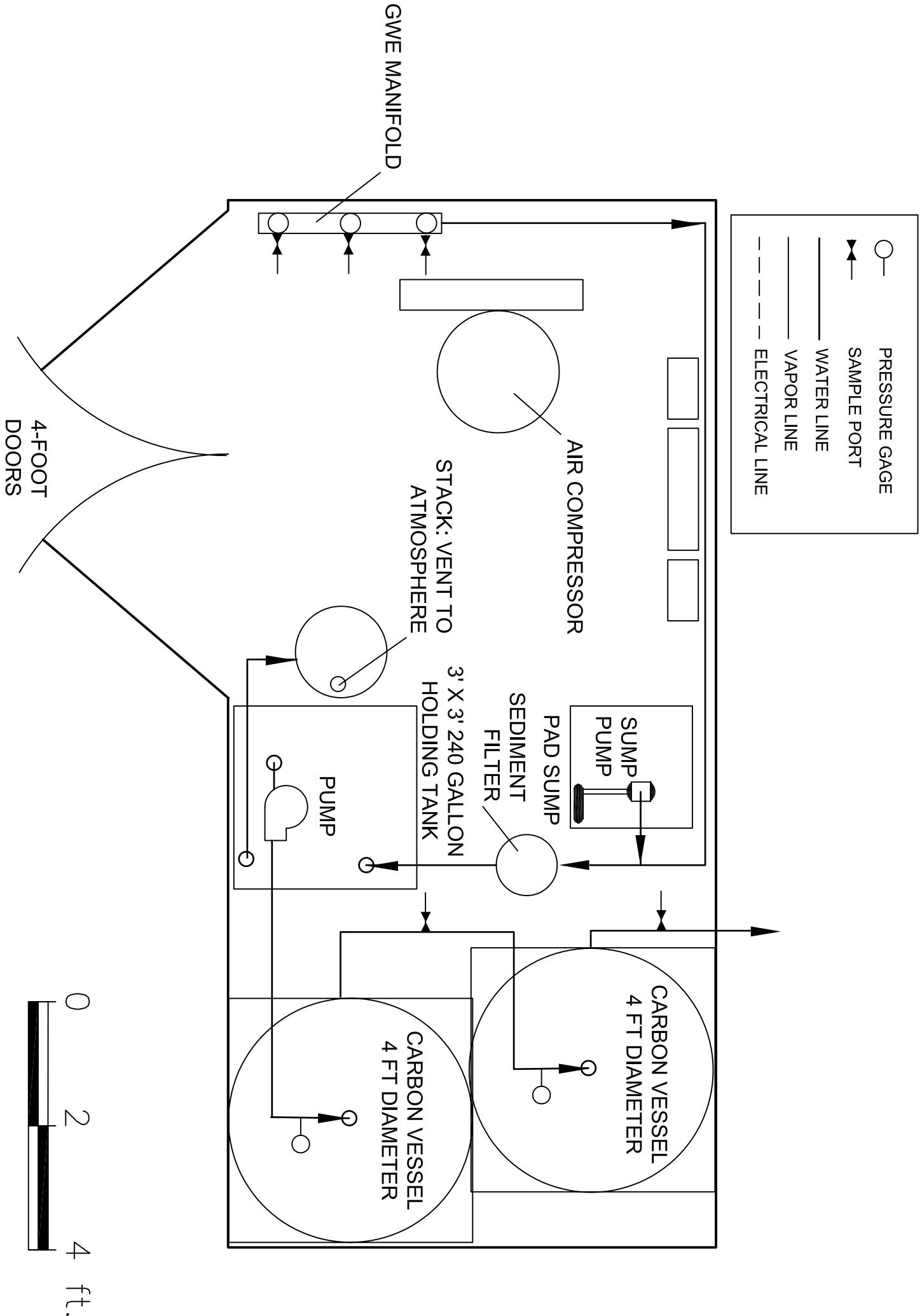


Figure 3. Remediation System Layout - Redwood Oil Service Station #106, 1100 Bennett Valley Road, Santa Rosa, California



APPENDIX B

TABLES AND GRAPHS

Table 1. Monitoring Well Survey Data, Well Construction Details, and Depth to Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Date	TOC (Ft,msl)	DTW (Ft)	GWE (Ft,msl)	Screen Interval	Sand Pack Interval	Bentonite Interval	Notes
MW-4	9/18/1998	165.15	5.95	159.20	5-20	4-20	0-4	
	1/4/1999		7.12	158.03				
	3/10/1999		4.37	160.78				
	10/1/1999		7.73	157.42				
	1/5/2000		8.70	156.45				
	3/29/2000		4.88	160.27				
	7/11/2000		7.60	157.55				
	9/29/2000		8.11	157.04				
	12/7/2000		8.52	156.63				
	3/6/2001		6.60	158.55				
	6/21/2001		7.05	158.10				
	9/18/2001		8.47	156.68				
	12/19/2001		7.05	158.10				
	3/20/2002		4.50	163.21				
	6/20/2002	167.71	6.18	161.53				Surveyed for EDF compliance.
	9/20/2002		7.68	160.03				
	12/31/2002		3.42	164.29				
	3/25/2003		4.80	162.91				
	7/1/2003		5.76	161.95				
	10/2/2003		7.61	160.10				
	12/9/2003		7.80	159.91				
	3/2/2004		4.12	163.59				
	6/8/2004		7.00	160.71				
	6/28/2004		7.37	160.34				
	9/9/2004		8.71	159.00				
	12/28/2004		7.84	159.87				
	3/29/2005		3.60	164.11				
	6/27/2005		5.24	162.47				
	9/27/2005		8.51	159.20				

Table 1. Monitoring Well Survey Data, Well Construction Details, and Depth to Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Date	TOC (Ft,msl)	DTW (Ft)	GWE (Ft,msl)	Screen Interval	Sand Pack Interval	Bentonite Interval	Notes
MW-5	9/18/1998	165.22	7.62	157.60	5-20	4-20	0-4	
	1/4/1999		7.61	157.61				
	3/10/1999		4.29	160.93				
	10/1/1999		8.70	156.52				
	1/5/2000		9.28	155.94				
	3/29/2000		5.27	159.95				
	7/11/2000		7.47	157.75				
	9/29/2000		9.05	156.17				
	12/7/2000		8.04	157.18				
	3/6/2001		5.40	159.82				
	6/21/2001		7.95	157.27				
	9/18/2001		9.45	155.77				
	12/19/2001		5.60	159.62				
	3/20/2002		4.85	162.94				
	6/20/2002	167.79	7.21	160.58				Surveyed for EDF compliance.
	9/20/2002		9.01	158.78				
	12/31/2002		4.35	163.44				
	3/25/2003		5.15	162.64				
	7/1/2003		7.00	160.79				
	10/2/2003		9.00	158.79				
	12/9/2003		8.60	159.19				
	3/2/2004		4.58	163.21				
	6/8/2004		8.18	159.61				
	6/28/2004		9.09	158.70				
	9/9/2004		10.32	157.47				
	12/28/2004		7.19	160.60				
	3/29/2005		4.10	163.69				
	6/27/2005		6.43	161.36				
	9/27/2005		10.32	157.47				

Table 1. Monitoring Well Survey Data, Well Construction Details, and Depth to Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Date	TOC (Ft,msl)	DTW (Ft)	GWE (Ft,msl)	Screen Interval	Sand Pack Interval	Bentonite Interval	Notes
MW-6	9/18/1998	163.49	8.50	154.99	5-20	4-20	0-4	
	1/4/1999		7.88	155.61				
	3/10/1999		3.97	159.52				
	10/1/1999		9.65	153.84				
	1/5/2000		9.70	153.79				
	3/29/2000		5.91	157.58				
	7/13/001		---	---				Monitoring well was inaccessible
	9/29/2000		9.73	153.76				
	12/7/001		---	---				Monitoring well was inaccessible
	3/6/2001		4.37	159.12				
	6/21/2001		8.52	154.97				
	9/18/2001		10.12	153.37				
	12/19/2001		9.93	153.56				
	3/20/2002	166.52	5.29	161.23				Surveyed for EDF compliance.
	6/20/2002		7.95	158.57				
	9/20/2002		9.91	156.61				
	12/31/2002		3.89	162.63				
	3/25/2003		5.59	160.93				
	7/1/2003		7.58	158.94				
	10/2/2003		9.70	156.82				
	12/9/2003		8.70	157.82				
	3/2/2004		5.21	161.31				
	6/8/2004		8.51	158.01				
	6/28/2004		9.93	156.59				
	9/9/2004		11.04	155.48				
	12/28/2004		--	--				Monitoring well was inaccessible
	3/29/2005		3.64	162.88				
	6/27/2005		6.85	159.67				
	9/27/2005		10.87	155.65				

Table 1. Monitoring Well Survey Data, Well Construction Details, and Depth to Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Date	TOC (Ft,msl)	DTW (Ft)	GWE (Ft,msl)	Screen Interval	Sand Pack Interval	Bentonite Interval	Notes
MW-7	9/18/1998	163.33	8.81	154.52	5-20	4-20	0-4	
	1/4/1999		7.18	156.15				
	3/10/1999		4.40	158.93				
	10/1/1999		8.31	155.02				
	1/5/2000		8.79	154.54				
	3/29/2000		4.96	158.37				
	7/11/2000		7.11	156.22				
	9/29/2000		8.68	154.65				
	12/7/2000		8.31	155.02				
	3/6/2001		4.62	158.71				
	6/21/2001		7.70	155.63				
	9/18/2001		9.17	154.16				
	12/19/2001		4.96	158.37				
	3/20/2002	167.01	---	---				Resurveyed for EDF compliance. Monitoring well was inaccessible.
	6/20/2002		7.00	160.01				
	9/20/2002		8.81	158.20				
	12/31/2002		4.17	162.84				
	3/25/2003		5.00	162.01				
	7/1/2003		6.92	160.09				
	10/2/2003		8.70	158.31				
	12/9/2003		8.24	158.77				
	3/2/2004		5.61	161.40				
	6/8/2004		8.12	158.89				
	6/28/2004		9.29	157.72				
	9/9/2004		10.34	156.67				
	12/28/2004		6.02	160.99				
	3/29/2005		4.02	162.99				
	6/27/2005		6.30	160.71				
	9/27/2005		11.42	155.59				

Table 1. Monitoring Well Survey Data, Well Construction Details, and Depth to Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Date	TOC (Ft,msl)	DTW (Ft)	GWE (Ft,msl)	Screen Interval	Sand Pack Interval	Bentonite Interval	Notes
MW-8	9/18/1998	164.37	6.00	158.37	5-20	4-20	0-4	
	1/4/1999		7.84	156.53				
	3/10/1999		2.41	161.96				
	10/1/1999		7.29	157.08				
	1/5/2000		7.57	156.80				
	3/29/2000		3.52	160.85				
	7/11/2000		5.71	158.66				
	9/29/2000		7.42	156.95				
	12/7/2000		7.00	157.37				
	3/6/2001		3.08	161.29				
	6/21/2001		6.22	158.15				
	9/18/2001		7.87	156.50				
	12/19/2001		3.45	160.92				
	3/20/2002	166.93	3.10	163.83				Surveyed for EDF compliance.
	6/20/2002		5.48	161.45				
	9/20/2002		7.30	159.63				
	12/31/2002		2.99	163.94				
	3/25/2003		3.29	163.64				
	7/1/2003		5.20	161.73				
	10/2/2003		7.21	159.72				
	12/9/2003		6.67	160.26				
	3/2/2004		2.38	164.55				
	6/8/2004		6.27	160.66				
	6/28/2004		6.91	160.02				
	9/9/2004		8.15	158.78				
	12/28/2004		5.28	161.65				
	3/29/2005		2.60	164.33				
	6/27/2005		4.84	162.09				
	9/27/2005		7.88	159.05				

Table 1. Monitoring Well Survey Data, Well Construction Details, and Depth to Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Date	TOC (Ft,msl)	DTW (Ft)	GWE (Ft,msl)	Screen Interval	Sand Pack Interval	Bentonite Interval	Notes
MW-9	7/11/2000	162.72	6.28	156.44	5-20	4-20	2-4	
	9/29/2000		7.75	154.97				
	12/7/2000		7.30	155.42				
	3/6/2001		4.34	158.38				
	6/21/2001		6.95	155.77				
	9/18/2001		8.25	154.47				
	12/19/2001		4.66	158.06				
	3/20/2002	166.40	4.70	161.70				Surveyed for EDF compliance.
	6/20/2002		6.41	159.99				
	9/20/2002		7.92	158.48				
	12/31/2002		3.75	162.65				
	3/25/2003		5.71	160.69				
	7/1/2003		6.20	160.20				
	10/2/2003		7.30	159.10				
	12/9/2003		6.78	159.62				
	3/2/2004		4.39	162.01				
	6/8/2004		7.10	159.30				
	6/28/2004		7.66	158.74				
	9/9/2004		8.77	157.63				
	12/28/2004		4.66	161.74				
	3/29/2005		4.05	162.35				
	6/27/2005		5.69	160.71				
	9/27/2005		8.49	157.91				
MW-10	7/11/2000	162.23	8.50	153.73	5-20	4-20	2-4	
	9/29/2000		10.07	152.16				
	12/7/2000		9.47	152.76				
	3/6/2001		4.61	157.62				
	6/21/2001		9.00	153.23				
	9/18/2001		10.50	151.73				
	12/19/2001		5.10	157.13				
	3/20/2002	165.91	5.75	160.16				Surveyed for EDF compliance.
	6/20/2002		8.45	157.46				
	9/20/2002		10.28	155.63				
	12/31/2002		3.53	162.38				

Table 1. Monitoring Well Survey Data, Well Construction Details, and Depth to Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Date	TOC (Ft,msl)	DTW (Ft)	GWE (Ft,msl)	Screen Interval	Sand Pack Interval	Bentonite Interval	Notes				
MW-10 cont	3/25/2003	165.91	6.10	159.81	5-20	4-20	2-4					
	7/1/2003		8.12	157.79								
	10/2/2003		10.10	155.81								
	12/9/2003		8.70	157.21								
	3/2/2004		4.55	161.36								
	6/8/2004		8.73	157.18								
	6/28/2004		9.34	156.57								
	9/9/2004		10.41	155.50								
	12/28/2004		4.74	161.17								
	3/29/2005		3.71	162.20								
	6/27/2005		7.29	158.62								
	9/27/2005		10.52	155.39								
MW-11	7/11/2000	162.86	8.36	154.50	5-20	4-20	2-4					
	9/29/2000		9.96	152.90								
	12/7/2000		9.37	153.49								
	3/6/2001		4.65	158.21								
	6/21/2001		8.78	154.08								
	9/18/2001		10.31	152.55								
	12/19/2001		5.20	157.66								
	3/20/2002	166.54	5.65	160.89								
	6/20/2002		8.27	158.27								
	9/20/2002		10.21	156.33								
	12/31/2002		4.11	162.43								
	3/25/2003		5.98	160.56								
	7/1/2003		7.94	158.60								
	10/2/2003		10.00	156.54								
	12/9/2003		8.86	157.68								
	3/2/2004		5.14	161.40								
	6/8/2004		8.75	157.79								
	6/28/2004		9.88	156.66								
	9/9/2004		10.98	155.56								
	12/28/2004		6.28	160.26								
	3/29/2005		3.95	162.59								
	6/27/2005		7.29	159.25								

Table 1. Monitoring Well Survey Data, Well Construction Details, and Depth to Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Date	TOC (Ft,msl)	DTW (Ft)	GWE (Ft,msl)	Screen Interval	Sand Pack Interval	Bentonite Interval	Notes	
MW-11 cont.	9/27/2005	166.54	10.82	155.72	5-20	4-20	2-4		
MW-12	7/11/2000	162.86 166.56	8.49	154.37	5-20	4-20	2-4		
	9/29/2000		10.04	152.82					
	12/7/2000		---	---				Monitoring well was inaccessible	
	3/6/2001		---	---				Monitoring well was inaccessible	
	6/21/2001		9.04	153.82					
	9/18/2001		10.46	152.40					
	12/19/2001		162.86	7.30				155.56	
	3/20/2002		166.56	5.81				160.75	
	6/20/2002			8.48				158.08	
	9/20/2002			10.35				156.21	
	12/31/2002			---				---	
	3/25/2003			6.06				160.50	
	7/1/2003			8.12				158.44	
	10/2/2003			10.18				156.38	
	12/9/2003			9.03				157.53	
	3/2/2004			5.09				161.47	
	6/8/2004			8.96				157.60	
	6/28/2004			9.91				156.65	
	9/9/2004		11.06	155.50					
	12/28/2004		6.34	160.22					
	3/29/2005		4.06	162.50					
	6/27/2005		7.39	159.17					
	9/27/2005		10.91	155.65					
MW-13	7/11/2000	164.14 167.82	9.63	154.51	5-20	4-20	2-4		
	9/29/2000		10.61	153.53					
	12/7/2000		10.07	154.07					
	3/6/2001		5.22	158.92					
	6/21/2001		9.37	154.77					
	9/18/2001		11.00	153.14					
	12/19/2001		5.72	158.42					
	3/20/2002		5.97	161.85					
	6/20/2002		8.67	159.15					
								Surveyed for EDF compliance.	

Table 1. Monitoring Well Survey Data, Well Construction Details, and Depth to Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Date	TOC (Ft,msl)	DTW (Ft)	GWE (Ft,msl)	Screen Interval	Sand Pack Interval	Bentonite Interval	Notes
MW-13 cont	9/20/2002	167.82	10.67	157.15	5-20	4-20	2-4	
	12/31/2002		4.80	163.02				
	3/25/2003		6.22	161.60				
	7/1/2003		8.21	159.61				
	10/2/2003		10.44	157.38				
	12/9/2003		9.50	158.32				
	3/2/2004		6.19	161.63				
	6/8/2004		9.32	158.50				
	6/28/2004		10.98	156.84				
	9/9/2004		12.11	155.71				
	12/28/2004		7.46	160.36				
	3/29/2005		4.41	163.41				
	6/27/2005		7.59	160.23				
	9/27/2005		11.80	156.02				
MW-14	3/20/2002	166.97	5.90	161.07	5-20	4-20	0-4	Surveyed for EDF compliance.
	6/20/2002		8.58	158.39				
	9/20/2002		10.51	156.46				
	12/31/2002		4.53	162.44				
	3/25/2003		6.23	160.74				
	7/1/2003		8.17	158.80				
	10/2/2003		10.29	156.68				
	12/9/2003		9.19	157.78				
	3/2/2004		5.62	161.35				
	6/8/2004		9.08	157.89				
	6/28/2004		10.34	156.63				
	9/9/2004		11.47	155.50				
	12/28/2004		6.74	160.23				
	3/29/2005		4.26	162.71				
	6/27/2005		7.51	159.46				
	9/27/2005		11.30	155.67				

Table 1. Monitoring Well Survey Data, Well Construction Details, and Depth to Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Date	TOC (Ft,msl)	DTW (Ft)	GWE (Ft,msl)	Screen Interval	Sand Pack Interval	Bentonite Interval	Notes
MW-15 @ 30'	5/4/2005	168.09	8.02	160.07	30 - 40	29 - 41	0 - 29	Surveyed for EDF compliance.
	6/27/2005		8.01	160.08				
	9/27/2005		12.42	155.67				
MW-15 @ 60'	5/4/2005	168.09	7.68	160.41	60 - 70	59 - 71	41 - 59	Surveyed for EDF compliance.
	6/27/2005		8.23	159.86				
	9/27/2005		12.38	155.71				
MW-15 @ 83'	5/4/2005	168.09	7.95	160.14	83 - 93	82 - 94	71 - 82	Surveyed for EDF compliance.
	6/27/2005		8.52	159.57				
	9/27/2005		11.81	156.28				
MW-15 @ 140'	5/4/2005	168.09	8.03	160.06	140 - 150	139 - 150	94 - 139	Surveyed for EDF compliance.
	6/27/2005		8.03	160.06				
	9/27/2005		12.40	155.69				
MW-16	5/4/2005	166.96	7.04	159.92	30 - 40	29 - 40	0 - 29	Surveyed for EDF compliance.
	6/27/2005		7.52	159.44				
	9/27/2005		11.21	155.75				
MW-17	5/4/2005	167.20	6.98	160.22	30 - 40	29 - 40	0 - 29	Surveyed for EDF compliance.
	6/27/2005		7.48	159.72				
	9/27/2005		13.54	153.66				
PZ-1	3/2/2004	168.23	11.56	156.67	5-20	4-20	0-4	Surveyed for EDF compliance.
	6/8/2004		10.42	157.81				
	6/28/2004		15.27	152.96				
	9/9/2004		16.38	151.85				
	9/27/2005		15.29	152.94				

ft = feet

msl = Mean Sea Level

DTW = Depth to Water

GWE = Ground Water Elevation

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<----- ppb ----->							
MW-4	9/18/1998	87,000	16,000	8,500	8,200	1,900	7,700	5,900	
	1/4/1999	79,000	<1,000	13,000	7,500	1,800	8,800	7,800	
	3/10/1999	44,000	<50	7,700	4,400	970	4,100	3,600	
	6/30/1999	17,000	270	2,200	300	490	800	3,000	Sample was flagged. See analytical report for details
	10/1/1999	---	---	---	--	--	--	--	Monitoring well now on semi annual sampling
	1/5/2000	32,000	<50	8,600	770	1,100	2,500	6,000	
	3/29/2000	64,000	3,200	9,500	7,400	1,700	6,100	9,000	Sample was flagged. See analytical report for details
	7/11/2000	14,000	790	4,300	130	680	420	5,100	Sample was flagged. See analytical report for details
	9/29/2000	19,000	<50	3,100	210	570	470	3,900	
	12/7/2000	41,000	<50	3,600	1,700	260	1,400	1,300	
	3/6/2001	25,000	<50	4,300	4,100	420	2,100	860	
	6/21/2001	720	160	140	18	28	12	340	
	9/18/2001	3,900	710	1,100	190	120	340	730	
	12/19/2001	21,000	1,200	5,000	3,200	710	1,800	1,500	
	3/20/2002	<50	<250	<1	<1	<1	<1	200	
	6/20/2002	150	<50	21	5	4	7	87	
	9/20/2002	720	120	34	3.8	3.5	7.1	720	
	12/31/2002	1,300	<50	200	95	22	82	77	
	3/25/2003	380	<125	120	30	7	27	3	
	7/1/2003	450	<50	160	62	14	54	10	
	10/2/2003	400	50	140	37	9	31	2	
	12/9/2003	1,000	64	290	100	26	113	47	
	3/2/2004	650	<50	190	84	21	82	49	
	6/8/2004	<25	260	<0.5	<0.5	<0.5	<1	<1	
	9/14/2004	950	55	120	46	16	67	37	
	12/28/2004	4,400	310	2,200	39	49	73	1,300	
	3/29/2005	3,800	200	350	150	65	320	180	
	6/27/2005	430	<50	2.0	3.1	1	0.5	130	
	9/27/2005	3,000	190	440	65	47	85	111	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<----- ppb ----->							
MW-5	9/18/1998	160,000	39,000	33,000	20,000	4,000	20,000	15,000	
	1/4/1999	160,000	<50	31,000	22,000	3,100	16,000	8,400	
	3/10/1999	190,000	230	34,000	13,000	3,500	15,000	6,800	Sample was flagged. See analytical report for details
	6/30/1999	130,000	1,700	22,000	15,000	2,500	12,000	4,900	Sample was flagged. See analytical report for details
	10/1/1999	---	---	---	---	--	---	---	Monitoring well on semi annual sampling
	1/5/2000	170,000	<50	38,000	23,000	3,000	16,000	8,000	
	3/29/2000	130,000	5,000	17,000	9,300	3,500	12,000	6,500	Sample was flagged. See analytical report for details
	7/11/2000	190,000	29,000	33,000	21,000	2,800	13,000	6,500	Sample was flagged. See analytical report for details
	9/29/2000	260,000	<50	28,000	25,000	3,700	18,000	7,700	
	12/7/2000	250,000	<50	21,000	13,000	2,200	12,000	6,500	
	3/6/2001	96,000	<50	54,000	12,000	2,100	9,500	2,300	
	6/21/2001	90,000	6,500	23,000	12,000	2,400	11,000	6,200	
	9/18/2001	88,000	3,100	23,000	12,000	3,000	14,000	3,600	
	12/19/2001	84,000	5,100	25,000	9,600	2,800	12,000	3,300	
	3/20/2002	43,000	6,200	19,000	7,300	1,900	9,800	2,200	
	6/20/2002	94,000	7,800	28,000	11,000	2,200	8,600	3,200	
	9/20/2002	120,000	3,700	30,000	14,000	3,300	15,000	3,000	
	12/31/2002	110,000	10,000	23,000	9,500	3,000	11,000	2,400	
	3/25/2003	83,000	7,800	26,000	8,000	2,800	11,200	1,600	
	7/1/2003	62,000	5,300	33,000	11,000	3,300	13,000	2,200	
	10/2/2003	90,000	8,000	31,000	10,000	3,300	13,100	2,500	
	12/9/2003	110,000	6,700	29,000	8,800	3,100	13,000	1,600	
	3/2/2004	120,000	8,600	38,000	11,000	4,000	13,700	1,000	
	6/8/2004	81,000	5,500	31,000	8,100	2,900	10,000	1,300	
	9/14/2004	97,000	8,700	27,000	7,100	3,100	11,600	1,100	
	12/28/2004	68,000	12,000	17,000	2,400	2,800	12,000	660	
	3/29/2005	120,000	5,000	28,000	6,200	3,200	11,200	720	
	6/27/2005	120,000	4,900	30,000	7,000	3,200	11,800	620	
	9/27/2005	120,000	4,600	29,000	5,700	3,800	12,500	540	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<----- ppb ----->							
MW-6	9/18/1998	49,000	8,000	10,000	3,200	1,600	5,200	10	Sample was flagged. See analytical report for details
	1/4/1999	11,000	<50	5,900	360	730	800	180	
	3/10/1999	18,000	190	2,800	330	77	930	91	
	6/30/1999	23,000	150	7,000	400	480	770	120	Sample was flagged. See analytical report for details
	10/1/1999	18,000	640	6,300	78	370	190	<250	Sample was flagged. See analytical report for details
	1/5/2000	22,000	<50	8,500	110	350	330	260	
	3/29/2000	15,000	1,200	4,200	380	290	460	<50	Sample was flagged. See analytical report for details
	7/13/2000	15,000	2,300	3,100	180	400	1,300	<13	Sample was flagged. See analytical report for details
	9/29/2000	33,000	<50	9,800	120	530	760	610	
	12/7/008	---	---	---	---	---	---	---	Well was inaccessible
	3/6/2001	43,000	<50	30,000	1,300	760	1,300	120	
	6/21/2001	44,000	1,700	18,000	810	1,500	1,800	<1,250	
	9/18/2001	25,000	960	11,000	240	810	780	<1,000	
	12/19/2001	27,000	750	12,000	360	510	480	790	
	3/20/2002	20,000	1,400	16,000	1,300	980	1,310	810	
	6/20/2002	23,000	750	11,000	350	540	330	960	
	9/20/2002	<50,000	570	12,000	<500	510	<1,000	1,500	
	12/31/2002	21,000	440	8,200	270	340	340	2,300	
	3/25/2003	32,000	1,900	14,000	1,100	900	1,170	1,000	
	7/1/2003	19,000	960	14,000	440	550	414	1,400	
	10/2/2003	21,000	1,200	12,000	130	450	163	1,900	
	12/9/2003	3,300	190	1,500	18	44	24	280	
	3/2/2004	840	<50	500	38	40	42	47	
	6/8/2004	1,000	110	500	<5	55	11	<10	
	9/14/2004	<50	<50	<0.5	<0.5	<0.5	<1.5	1	
	12/28/2004	---	---	---	---	---	---	---	Well was inaccessible.
	3/29/2005	6,300	700	1,200	160	180	379	29	
	6/27/2005	6,000	270	1,400	90	220	375	28	
	9/27/2005	1,400	100	290	15	77	116	3.1	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<----- ppb ----->							
MW-7	9/18/1998	<50	3,000	<0.5	<0.5	<0.5	<1.0	<1	Sample was flagged. See analytical report for details
	1/4/1999	4,200	<50	1,900	81	160	280	35	
	3/10/1999	9,800	<50	<0.50	70	150	390	18	
	6/30/1999	13,000	78	3,000	320	320	670	<125	
	10/1/1999	7,800	2,600	2,700	140	220	420	<100	Sample was flagged. See analytical report for details
	1/5/2000	14,000	<50	4,500	120	300	650	<50	
	3/29/2000	14,000	360	4,100	94	360	220	<50	Sample was flagged. See analytical report for details
	7/11/2000	8,500	560	3,000	53	270	220	12	Sample was flagged. See analytical report for details
	9/29/2000	15,000	<50	3,700	41	290	360	<25	
	12/7/2000	7,000	<50	1,300	83	160	280	<25	
	3/6/2001	13,000	1,200	4,600	110	510	850	<2.0	
	6/21/2001	12,000	660	2,800	95	350	590	<500	
	9/18/2001	2,600	140	1,000	36	85	110	<50	
	12/19/2001	9,300	600	3,800	76	450	370	<50	
	3/20/2002	—	—	—	—	—	—	—	Well was inaccessible.
	6/20/2002	6,800	730	2,600	34	270	112	<20	
	9/20/2002	14,000	330	4,800	<125	500	540	7.7	
	12/31/2002	9,300	770	2,600	70	240	300	5	
	3/25/2003	3,600	470	1,600	10	120	28	41	
	7/1/2003	600	52	200	18	22	34	49	
	10/2/2003	3,200	480	1,600	23	130	176	31	
	12/9/2003	16,000	170	390	17	24	45	24	
	3/2/2004	4,100	330	1,300	9	47	29	17	
	6/8/2004	2,000	110	860	16	47	46	<10	
	9/14/2004	5,000	110	980	23	84	58.8	6	
	12/28/2004	6,000	920	1,800	27	68	61.1	3.7	
	3/29/2005	1,600	100	350	5	22	8	2	
	6/28/2005	840	<50	180	11	18	17	1.7	
	9/27/2005	2,300	62	670	17	41	30.4	1.4	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<----- ppb ----->							
MW-8	9/18/1998	<50	<50	3	1	<0.5	<1.0	<1	
	1/4/1999	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/10/1999	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	6/30/1999	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	10/1/1999	<50	<50	<0.5	<0.5	<0.5	1.2	<5.0	
	1/5/2000	220	<50	7.1	0.7	0.5	1.7	<2.0	
	3/29/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	7/11/2000	76	<50	4.6	<0.5	<0.5	0.5	<0.5	
	9/29/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	12/7/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	3/6/2001	<50	<50	2.8	<0.5	<0.5	<0.5	<2.0	
	6/21/2001	<50	52	6	2.3	1.1	2.6	<5.0	
	9/18/2001	<50	<50	<0.5	0.62	<0.5	<0.5	<5.0	
	12/19/2001	51	84	6	0.8	0.9	2.6	<5	
	3/20/2002	<50	<50	<1	<1	<1	<1	<1	
	6/20/2002	78	<50	18	5	4	7	4	
	9/20/2002	<50	<50	<0.5	<0.5	<0.5	<1	<5	
	12/31/2002	61	200	13	2.2	2.1	4.6	<1	
	3/25/2003	55	<50	16	3	1	5	<1	
	7/1/2003	<50	<50	11	2	2	4	<1	
	10/2/2003	<50	<50	<1	<1	<1	<1	<1	
	12/9/2003	71	<50	10	5	2	8	<1	
	3/2/2004	69	<50	5	13	2	13	1	
	6/8/2004	<25	<50	<0.5	0.6	<0.5	<1	<1	
	9/14/2004	<50	<50	3.3	1.4	0.7	3	<0.5	
	12/28/2004	<50	<50	<0.5	<0.5	<0.5	<1.5	<0.5	
	3/29/2005	<100	<50	3.1	<0.5	0.5	<1.5	1.9	
	6/27/2005	590	<50	100	47	16	61	2.8	
	9/27/2005	<100	<50	4.9	3.9	1.9	9.1	1.0	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<-----	ppb	----->					
MW-9	7/11/2000	92	<50	6.4	<0.5	1.2	1	<0.5	
	9/29/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	12/7/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	3/6/2001	<50	<50	1.1	<0.5	<0.5	<0.5	<2.0	
	6/21/2001	67	<50	0.61	0.53	<0.5	<0.5	<5.0	
	9/18/2001	<50	<50	1.4	0.63	<0.5	<0.5	<5.0	
	12/19/2001	<50	<50	4.7	0.74	0.66	1.9	<5	
	3/20/2002	110	<50	35	8	4	7	<1	
	6/20/2002	99	<50	25	5	5	8	5	
	9/20/2002	<50	<50	18	0.8	1.5	<1	<5	
	12/31/2002	54	220	11	3.4	1.9	5.1	<1	
	3/25/2003	57	<50	15	4	2	6	<1	
	7/1/2003	63	<50	24	4	3	7	<1	
	10/2/2003	<50	<50	12	<1	<1	<1	<1	
	12/9/2003	53	<50	6	6	2	9	<1	
	3/2/2004	83	<50	6	15	2	15	1	
	6/8/2004	<25	<50	<0.5	0.6	<0.5	<1	<1	
	9/14/2004	<50	<50	2	3	1.2	5.9	<0.5	
	12/28/2004	<50	<50	<0.5	<5	<0.5	<1.0	<0.5	
	3/29/2005	<100	<50	0.9	<0.5	<0.5	<1.5	<0.5	
	6/28/2005	100	<50	7.1	4.7	2.1	7.7	<0.5	
	9/27/2005	<100	<50	2.5	3.7	1.9	9.1	<0.5	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<-----	ppb	----->					
MW-10	7/11/2000	<50	<50	1.5	<0.5	<0.5	<0.5	8.1	
	9/29/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	12	
	12/7/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	13	
	3/6/2001	110	<50	20	1.2	0.82	0.75	12	
	6/21/2001	57	<50	6.3	1.5	0.78	1.2	34	
	9/18/2001	59	<50	7	1.1	0.6	1.2	39	
	12/19/2001	60	80	7.5	0.68	0.56	1	47	
	3/20/2002	82	<250	23	7	3	7	26	
	6/20/2002	150	<50	47	7	6	8	60	
	9/20/2002	380	<50	160	2.7	12	11	66	
	12/31/2002	140	<50	37	3.9	2.5	5.6	64	
	3/25/2003	110	<50	38	6	3	8	63	
	7/1/2003	77	<50	29	4	3	7	71	
	10/2/2003	58	<50	29	<1	<1	<1	110	
	12/9/2003	67	<50	8	8	2	10	96	
	3/2/2004	82	<50	6	13	2	14	83	
	6/8/2004	35	<50	<0.5	0.5	<0.5	<1	54	
	9/14/2004	<50	<50	<0.5	<0.5	<0.5	<1.5	35	
	12/28/2004	<50	<50	44	<0.5	<0.5	0.89	<0.5	
	3/29/2005	<100	<50	3.1	1.0	1.1	1.7	29	
	6/28/2005	100	<50	8.1	5.5	2.2	8.3	41	
	9/27/2005	110	<50	3.6	7.8	2.5	15.3	33	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<-----	ppb	----->					
MW-11	7/11/2000	3,000	770	260	48	8.3	550	12	Sample was flagged. See analytical report for details
	9/29/2000	8,500	<50	1,400	9.6	280	760	33	
	12/7/2000	3,300	<50	340	6.9	70	240	<2.5	
	3/6/2001	540	<50	220	2.5	2.7	7.8	<2.0	
	6/21/2001	930	170	250	9.1	41	44	<25	
	9/18/2001	1,200	160	290	12	83	120	<25	
	12/19/2001	140	140	34	1.5	2.4	3.6	<5	
	3/20/2002	<50	<50	<1	<1	<1	<1	<1	
	6/20/2002	140	<50	37	5	5	7	6	
	9/20/2002	64	<50	32	1.2	1.9	1.3	<5	
	12/31/2002	53	<50	17	2.9	1.9	4.4	<1	
	3/25/2003	97	<125	29	5	2	8	<1	
	7/1/2003	51	<50	16	3	2	7	<1	
	10/2/2003	<50	<50	15	<1	<1	<1	<1	
	12/9/2003	69	<50	8	8	2	10	<1	
	3/2/2004	92	<50	8	15	3	15	1	
	6/8/2004	<25	<50	1.1	<0.5	<0.5	<1	<1	
	9/14/2004	<50	<50	<0.5	<0.5	<0.5	<1.5	<0.5	
	12/28/2004	<50	<50	3	<5.0	0.69	1	<0.5	
	3/29/2005	<100	<50	2.3	0.6	0.7	1.1	<0.5	
	6/28/2005	<100	<50	6.5	4.6	1.9	7.3	<0.5	
	9/27/2005	<100	<50	2.6	6.6	2.2	13.2	<0.5	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<----- ppb ----->							
MW-12	7/11/2000	3,400	340	710	46	78	70	3.3	Sample was flagged. See analytical report for details
	9/29/2000	3,500	<50	1,100	8.8	100	4.2	4.7	
	12/7/2000	---	---	---	---	---	---	---	Well was inaccessible.
	3/6/2001	---	---	---	---	---	---	---	Well was inaccessible.
	6/21/2001	620	84	210	4	8	<2.5	<25	
	9/18/2001	76	<50	17	1.6	0.99	2.1	11	
	12/19/2001	88	97	23	1.7	1.3	2.6	22	
	3/20/2002	540	<50	170	12	8	12	8	
	6/20/2002	320	62	92	8	7	8	14	
	9/20/2002	<250	—	76	<2.5	3.4	<5	36	
	12/31/2002	—	—	—	—	—	—	—	Well was inaccessible.
	3/25/2003	1,600	100	540	15	50	15	8	
	7/1/2003	2,100	120	680	21	110	24	6	
	10/2/2003	150	<50	57	<1	1	<1	27	
	12/9/2003	340	<50	87	10	3	12	14	
	3/2/2004	1,100	69	270	20	6	21	7	
	6/8/2004	47	<50	<0.5	<0.5	<0.5	<1	1.5	
	9/14/2004	<50	<50	<0.5	<0.5	<0.5	<1.5	2	
	12/28/2004	<50	80	<0.5	<0.5	<0.5	<1.5	<0.5	
	3/29/2005	580	<50	90	3.1	13	7.7	0.6	
	6/28/2005	1,700	<50	460	12	58	13.2	0.9	
	9/27/2005	1,800	<50	330	17	9.1	27	1.6	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<-----	ppb	----->					
MW-13	8/8/2000	53,000	<50	3,700	5,600	1,400	7,200	ND	
	9/29/2000	11,000	<50	890	350	900	800	<5.0	
	12/7/2000	1,200	<50	170	7.5	7.7	26	<2.5	
	3/6/2001	1,000	<50	480	30	19	110	<2.0	
	6/21/2001	750	110	260	10	20	14	<25	
	9/18/2001	1,700	160	520	110	65	110	<50	
	12/19/2001	6,500	98	570	380	130	720	<5	
	3/20/2002	210	<250	34	2	<1	6	<1	
	6/20/2002	420	<250	130	63	15	46	10	
	9/20/2002	100	<50	36	1.5	4	2.2	<5	
	12/31/2002	2,600	320	410	170	84	240	<1	
	3/25/2003	270	<125	160	32	18	42	<1	
	7/1/2003	220	<50	58	15	8	23	<1	
	10/2/2003	410	<50	120	23	22	49	<1	
	12/9/2003	490	<50	100	12	15	47	<1	
	3/2/2004	530	<50	140	40	12	49	2	
	6/8/2004	47	<50	9.8	<0.5	0.7	<1	<1	
	9/14/2004	540	<50	99	15	13	28.9	<0.5	
	12/28/2004	110	<50	45	<0.5	<0.5	0.92	<0.5	
	3/29/2005	110	<50	22	1.3	2.2	2.8	<0.5	
	6/28/2005	1,700	<50	640	42	74	150	<0.5	
	9/27/2005	160	<50	19	7.5	4.0	15.3	<0.5	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<----- ppb ----->							
MW-14	3/20/2002	8,100	2,300	200	20	2	1,700	6	
	6/20/2002	530	<50	100	19	15	27	52	
	9/20/2002	720	98	180	29	19	34	75	
	12/31/2002	900	96	130	58	22	55	140	
	3/25/2003	590	<125	160	50	21	35	63	
	7/1/2003	220	<50	68	11	7	15	52	
	10/2/2003	460	740	1,500	190	250	370	25	
	12/9/2003	220	<50	53	8	8	13	22	
	3/2/2004	2,700	200	1,300	8	180	19	7	
	6/8/2004	160	110	43	4.4	7.4	7.3	<1	
	9/14/2004	<500	<50	41	3.1	6.5	7.5	<0.5	
	12/28/2004	1,100	360	460	4.9	24	5.5	<0.5	
	3/29/2005	3,400	240	940	76	82	73	0.6	
	6/28/2005	450	<50	72	25	13	32.1	0.8	
	9/27/2005	310	<50	58	8.2	8.3	17.4	<0.5	
MW-15 @ 30'	5/4/2005	110,000	250,000	21,000	19,000	1,000	5,700	22,000	
	6/27/2005	100,000	320,000	22,000	22,000	940	5,400	23,000	
	9/27/2005	77,000	160,000	20,000	18,000	590	3,500	23,000	
MW-15 @ 60'	5/4/2005	920	<50	190	140	9.2	48	59	
	6/27/2005	1,900	<50	470	450	26	120	33	
	9/27/2005	63,000	200,000	12,000	9,300	500	2,900	20,000	
MW-15 @ 83'	5/4/2005	3,400	<50	580	780	43	210	7.3	
	6/27/2005	8,300	<50	1,900	1,500	99	440	68	
	9/27/2005	17,000	90	7,200	7,300	290	1,630	280	
MW-15 @ 140'	5/4/2005	100,000	230,000	20,000	18,000	920	5,200	19,000	
	6/27/2005	93,000	240,000	20,000	20,000	1,100	5,300	20,000	
	9/27/2005	77,000	190,000	19,000	17,000	590	3,500	22,000	
MW-16	5/3/2005	<100	<50	1.1	1.0	1.0	4.2	120	
	6/27/2005	460	<50	80	37	12	44	83	
	9/27/2005	<100	<50	5.0	5.3	2.7	12.7	41	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<-----	ppb	----->					
MW-17	5/3/2005	<100	<50	0.6	0.7	0.9	3.7	32	
	6/28/2005	110	<50	15	8.8	2.7	11.4	35	
	9/27/2005	<100	<50	2.3	4.8	2.2	11.5	4.5	
DW-1020	6/30/1999	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	10/1/1999	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	1/5/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	2/8/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	3/28/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	4/21/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	5/26/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	
	6/26/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	7/21/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	8/29/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	9/29/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	10/3/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	12/7/2000	140	<50	<0.5	0.58	<0.5	1.3	2	Sample was flagged. See analytical report for details
	12/29/2000	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	1/5/2001	<50	---	<0.5	<0.5	<0.5	<0.5	<2.0	Sample analyzed by Sparger Technology Inc
	1/5/2001	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	Sample analyzed by Entech Analytical Labs Inc
	1/29/2001	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	Sample was flagged. See analytical report for details
	2/9/2001	<50	89	<0.5	<0.5	<0.5	<0.5	<5.0	
	2/22/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	2/28/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	3/6/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.0	
	4/6/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	5/14/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	6/21/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	7/13/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	8/22/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	9/18/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	
	10/8/2001	<50	160	<0.5	<0.5	<0.5	<0.5	<5	
	11/20/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	
	12/19/2001	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	

Table 2. Analytical Results for Ground Water - 1100 Bennett Valley Road, Santa Rosa, California

Well ID	Sample Date	TPH-G	TPH-D	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Notes
		<-----	ppb	----->					
DW-1020	1/15/2002	<50	<250	<1	<1	<1	<1	<1	
	2/14/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.0	
	3/20/2002	<50	<50	<1	<1	<1	<1	<1	
	4/11/2002	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	
	5/15/2002	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	
	6/20/2002	<50	<50	<1	<1	<1	<1	<1	
	7/10/2002	<50	<50	<0.5	<0.5	<0.5	<1	<5	
	8/8/2002	<50	<50	<0.5	<0.5	<0.5	<1	<5	
	9/20/2002	<50	<50	<0.5	<0.5	<0.5	<1	<5	
	12/31/2002	<50	<50	<0.5	<0.5	<0.5	<1	<1	
	3/25/2003	<250	<125	<1	<1	<1	<1	<1	
	7/1/2003	<50	<50	<1	<1	<1	<1	<1	
	10/2/2003	<50	<50	<1	<1	<1	<1	<1	
	12/9/2003	<50	<50	<1	<1	<1	<1	<1	
	3/2/2004	<50	77	<1	<1	<1	<1	<1	
	6/8/2004	<25	<50	<0.5	<0.5	<0.5	<1	<1	
	9/14/2004	<50	<50	<0.5	<0.5	<0.5	<1.5	<0.5	
	12/28/2004	<50	<50	<0.5	<0.5	<0.5	<1.5	<0.5	
	3/29/2005	<100	<50	<0.5	<0.5	<0.5	<1.5	<0.5	
	6/27/2005	<100	<50	0.6	0.9	<0.5	<1.5	<0.5	
	7/25/2005	<100	---	<0.5	<0.5	<0.5	<1.5	<0.5	
	9/27/2005	<100	<50	<0.5	<0.5	<0.5	<1.5	<0.5	

Explanation TPH(G) = Total Petroleum Hydrocarbons as Gasoline

TPH(D) = Total Petroleum Hydrocarbons as Diesel.

MTBE = Methyl tert butyl ether

ppb = parts per billion

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<----- ppb ----->					
MW-4	9/18/1998	ND	5,900	ND	ND	ND	
	1/4/1999	ND	7,800	ND	ND	ND	
	3/10/1999	ND	3,600	ND	ND	ND	
	6/30/1999	ND	3,000	ND	ND	ND	
	10/1/1999	---	---	---	---	---	
	1/5/2000	ND	6,000	ND	ND	ND	
	3/29/2000	ND	9,000	ND	ND	ND	
	7/11/2000	ND	5,100	ND	ND	ND	
	9/29/2000	ND	3,900	ND	ND	ND	
	12/7/2000	ND	1,300	ND	ND	ND	
	3/6/2001	620	860	ND	ND	ND	
	6/21/2001	ND	340	ND	ND	ND	
	9/18/2001	ND	730	ND	ND	ND	
	12/19/2001	ND	1,500	ND	ND	ND	
	3/20/2002	ND	200	ND	ND	1	
	6/20/2002	ND	87	ND	ND	ND	
	9/20/2002	220	720	ND	ND	ND	
	12/31/2002	40	77	ND	ND	ND	
	3/25/2003	<200	3	<1	<1	<1	
	7/1/2003	<200	10	<1	<1	<1	
	10/2/2003	<200	2	<1	<1	<1	
	12/9/2003	8	47	<1	<1	<1	
	3/2/2004	10	49	<1	<1	<1	
	6/8/2004	<1	<1	<1	<1	<1	
	9/14/2004	44	37	<0.5	<0.5	<0.5	
	12/28/2004	460	1,300	<1	<1	13	
	3/29/2005	51	180	<0.5	<0.5	1.8	
	6/27/2005	59	130	<0.5	<0.5	0.7	
	9/27/2005	380	210	<0.5	<0.5	1.6	

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<----- ppb ----->					
MW-5	9/18/1998	ND	15,000	ND	ND	ND	
	1/4/1999	ND	8,400	ND	ND	ND	
	3/10/1999	ND	6,800	ND	ND	ND	
	6/30/1999	ND	4,900	ND	ND	ND	
	10/1/1999	---	---	---	---	---	
	1/5/2000	ND	8,000	ND	ND	ND	
	3/29/2000	ND	6,500	ND	ND	ND	
	7/11/2000	ND	6,500	ND	ND	ND	
	9/29/2000	ND	7,700	ND	ND	ND	
	12/7/2000	ND	6,500	ND	ND	ND	
	3/6/2001	1,200	2,300	ND	ND	ND	
	6/21/2001	ND	6,200	ND	ND	ND	
	9/18/2001	ND	3,600	ND	ND	ND	
	12/19/2001	1,200	3,300	ND	ND	ND	
	3/20/2002	ND	2,200	ND	ND	ND	
	6/20/2002	ND	3,200	ND	ND	ND	
	9/20/2002	1,000	3,000	ND	ND	ND	
	12/31/2002	2,200	2,400	ND	ND	ND	
	3/25/2003	1,400	1,600	<1	<1	18	
	7/1/2003	1,800	2,200	<1	<1	20	
	10/2/2003	910	2,500	<1	<1	23	
	12/9/2003	780	1,600	<1	<1	15	
	3/2/2004	600	1,000	<1	<1	11	
	6/8/2004	<500	1,300	<500	<500	<500	
	9/14/2004	1,100	1,100	<0.5	0.61	12	
	12/28/2004	900	660	<25	<25	<25	
	3/29/2005	590	720	<0.5	<0.5	11	
	6/27/2005	980	620	<0.5	<0.5	12	
	9/27/2005	810	540	<0.5	<0.5	10	

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<----- ppb ----->					
MW-6	9/18/1998	ND	10	ND	ND	ND	
	1/4/1999	ND	180	ND	ND	ND	
	3/10/1999	ND	91	ND	ND	ND	
	6/30/1999	ND	120	ND	ND	ND	
	10/1/1999	ND	<250	ND	ND	ND	
	1/5/2000	ND	260	ND	ND	ND	
	3/29/2000	ND	<50	ND	ND	ND	
	7/13/2000	ND	<13	ND	ND	ND	
	9/29/2000	ND	610	ND	ND	ND	
	12/7/008	---	---	---	---	---	
	3/6/2001	640	120	ND	ND	ND	
	6/21/2001	ND	<1,250	ND	ND	ND	
	9/18/2001	ND	<1,000	ND	ND	ND	
	12/19/2001	590	790	ND	ND	ND	
	3/20/2002	ND	810	ND	ND	ND	
	6/20/2002	ND	960	ND	ND	ND	
	9/20/2002	1,200	1,500	ND	ND	ND	
	12/31/2002	2,200	2,300	ND	ND	ND	
	3/25/2003	1,200	1,000	<1	<1	7	
	7/1/2003	1,100	1,400	<1	<1	9	
	10/2/2003	670	1,900	<1	<1	11	
	12/9/2003	130	280	<1	<1	2	
	3/2/2004	28	47	<1	<1	1	
	6/8/2004	<10	<10	<10	<10	<10	
	9/14/2004	<5	1	<0.5	<0.5	<0.5	
	12/28/2004	---	---	---	---	---	
	3/29/2005	59	29	<0.5	<0.5	<0.5	
	6/27/2005	110	28	<0.5	<0.5	<0.5	
	9/27/2005	12	3.1	<0.5	<0.5	<0.5	

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<----- ppb ----->					
MW-7	9/18/1998	ND	<1	ND	ND	ND	
	1/4/1999	ND	35	ND	ND	ND	
	3/10/1999	ND	18	ND	ND	ND	
	6/30/1999	ND	<125	ND	ND	ND	
	10/1/1999	ND	<100	ND	ND	ND	
	1/5/2000	ND	<50	ND	ND	ND	
	3/29/2000	ND	<50	ND	ND	ND	
	7/11/2000	ND	12	ND	ND	ND	
	9/29/2000	ND	<25	ND	ND	ND	
	12/7/2000	ND	<25	ND	ND	ND	
	3/6/2001	83	<2.0	ND	ND	7.5	
	6/21/2001	ND	<500	ND	ND	ND	
	9/18/2001	ND	<50	ND	ND	ND	
	12/19/2001	ND	<50	ND	ND	ND	
	3/20/2002	ND	---	ND	ND	ND	
	6/20/2002	ND	<20	ND	ND	ND	
	9/20/2002	130	7.7	ND	ND	ND	
	12/31/2002	130	5	ND	ND	ND	
	3/25/2003	<200	41	<1	<1	<1	
	7/1/2003	<200	49	<1	<1	<1	
	10/2/2003	<200	31	<1	<1	<1	
	12/9/2003	27	24	<1	<1	<1	
	3/2/2004	210	17	<1	<1	<1	
	6/8/2004	<10	<10	<10	<10	<10	
	9/14/2004	89	6	<0.5	<0.5	<0.5	
	12/28/2004	360	3.7	<0.5	<0.5	<0.5	
	3/29/2005	110	2	<1	<1	<1	
	6/28/2005	47	1.7	<0.5	<0.5	<0.5	
	9/27/2005	32	1.4	<0.5	<0.5	<0.5	

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<----- ppb ----->					
MW-8	9/18/1998	ND	<1	ND	ND	ND	
	1/4/1999	ND	<5.0	ND	ND	ND	
	3/10/1999	ND	<5.0	ND	ND	ND	
	6/30/1999	ND	<5.0	ND	ND	ND	
	10/1/1999	ND	<5.0	ND	ND	ND	
	1/5/2000	ND	<2.0	ND	ND	ND	
	3/29/2000	ND	<0.5	ND	ND	ND	
	7/11/2000	ND	<0.5	ND	ND	ND	
	9/29/2000	ND	<0.5	ND	ND	ND	
	12/7/2000	ND	<0.5	ND	ND	ND	
	3/6/2001	ND	<2.0	ND	ND	ND	
	6/21/2001	ND	<5.0	ND	ND	ND	
	9/18/2001	ND	<5.0	ND	ND	ND	
	12/19/2001	ND	<5	ND	ND	ND	
	3/20/2002	ND	<1	ND	ND	ND	
	6/20/2002	ND	4	ND	ND	ND	
	9/20/2002	ND	<5	ND	ND	ND	
	12/31/2002	ND	<1	ND	ND	ND	
	3/25/2003	<200	<1	<1	<1	<1	
	7/1/2003	<200	<1	<1	<1	<1	
	10/2/2003	<200	<1	<1	<1	<1	
	12/9/2003	<5	<1	<1	<1	<1	
	3/2/2004	<5	1	<1	<1	<1	
	6/8/2004	<1	<1	<1	<1	<1	
	9/14/2004	<5	<0.5	<0.5	<0.5	<0.5	
	12/28/2004	<5	<0.5	<0.5	<0.5	<0.5	
	3/29/2005	<5	1.9	<0.5	<0.5	0.6	
	6/27/2005	<5	2.8	<0.5	<0.5	0.8	
	9/27/2005	<5	1.0	<0.5	<0.5	<0.5	

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<----- ppb ----->					
MW-9	7/11/2000	ND	<0.5	ND	ND	ND	
	9/29/2000	ND	<0.5	ND	ND	ND	
	12/7/2000	ND	<0.5	ND	ND	ND	
	3/6/2001	ND	<2.0	ND	ND	ND	
	6/21/2001	ND	<5.0	ND	ND	ND	
	9/18/2001	ND	<5.0	ND	ND	ND	
	12/19/2001	ND	<5	ND	ND	ND	
	3/20/2002	ND	<1	ND	ND	ND	
	6/20/2002	ND	5	ND	ND	ND	
	9/20/2002	ND	<5	ND	ND	ND	
	12/31/2002	ND	<1	ND	ND	ND	
	3/25/2003	<200	<1	<1	<1	<1	
	7/1/2003	<200	<1	<1	<1	<1	
	10/2/2003	<200	<1	<1	<1	<1	
	12/9/2003	<5	<1	<1	<1	<1	
	3/2/2004	<5	1	<1	<1	<1	
	6/8/2004	<1	<1	<1	<1	<1	
	9/14/2004	<5	<0.5	<0.5	<0.5	<0.5	
	12/28/2004	<5	<0.5	<0.5	<0.5	<0.5	
	3/29/2005	<5	<0.5	<0.5	<0.5	<0.5	
	6/28/2005	<5	<0.5	<0.5	<0.5	<0.5	
	9/27/2005	<5	<0.5	<0.5	<0.5	<0.5	
MW-10	7/11/2000	ND	8.1	ND	ND	ND	
	9/29/2000	ND	12	ND	ND	ND	
	12/7/2000	ND	13	ND	ND	ND	
	3/6/2001	ND	12	ND	ND	ND	
	6/21/2001	ND	34	ND	ND	ND	
	9/18/2001	ND	39	ND	ND	ND	
	12/19/2001	ND	47	ND	ND	ND	
	3/20/2002	ND	26	ND	ND	ND	
	6/20/2002	ND	60	ND	ND	ND	
	9/20/2002	ND	66	ND	ND	ND	
	12/31/2002	16	64	ND	ND	ND	
	3/25/2003	<200	63	<1	<1	<1	

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<----- ppb ----->					
MW-10 cont.	7/1/2003	<200	71	<1	<1	<1	
	10/2/2003	<200	110	<1	<1	<1	
	12/9/2003	<5	96	<1	<1	<1	
	3/2/2004	<5	83	<1	<1	<1	
	6/8/2004	<1	54	<1	<1	<1	
	9/14/2004	11	35	<0.5	<0.5	<0.5	
	12/28/2004	<5	<0.5	<0.5	<0.5	<0.5	
	3/29/2005	<5	29	<1	<1	<1	
	6/28/2005	<5	41	<0.5	<0.5	<0.5	
	9/27/2005	<5	33	<0.5	<0.5	<0.5	
MW-11	7/11/2000	ND	12	ND	ND	ND	
	9/29/2000	ND	33	ND	ND	ND	
	12/7/2000	ND	<2.5	ND	ND	ND	
	3/6/2001	ND	<2.0	ND	ND	ND	
	6/21/2001	ND	<25	ND	ND	ND	
	9/18/2001	ND	<25	ND	ND	ND	
	12/19/2001	ND	<5	ND	ND	ND	
	3/20/2002	ND	<1	ND	ND	ND	
	6/20/2002	ND	6	ND	ND	ND	
	9/20/2002	ND	<5	ND	ND	ND	
	12/31/2002	ND	<1	ND	ND	ND	
	3/25/2003	<200	<1	<1	<1	<1	
	7/1/2003	<200	<1	<1	<1	<1	
	10/2/2003	<200	<1	<1	<1	<1	
	12/9/2003	<5	<1	<1	<1	<1	
	3/2/2004	<5	1	<1	<1	<1	
	6/8/2004	<1	<1	<1	<1	<1	
	9/14/2004	<5	<0.5	<0.5	<0.5	<0.5	
	12/28/2004	<5	<0.5	<0.5	<0.5	<0.5	
	3/29/2005	<5	<0.5	<0.5	<0.5	<0.5	
	6/28/2005	<5	<0.5	<0.5	<0.5	<0.5	
	9/27/2005	<5	<0.5	<0.5	<0.5	<0.5	

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<----- ppb ----->					
MW-12	7/11/2000	ND	3.3	ND	ND	ND	
	9/29/2000	ND	4.7	ND	ND	ND	
	12/7/2000	ND	---	ND	ND	ND	
	3/6/2001	ND	---	ND	ND	ND	
	6/21/2001	ND	<25	ND	ND	ND	
	9/18/2001	ND	11	ND	ND	ND	
	12/19/2001	ND	22	ND	ND	ND	
	3/20/2002	ND	8	ND	ND	ND	
	6/20/2002	ND	14	ND	ND	ND	
	9/20/2002	ND	36	ND	ND	ND	
	12/31/2002	ND	---	ND	ND	ND	
	3/25/2003	<200	8	<1	<1	<1	
	7/1/2003	<200	6	<1	<1	<1	
	10/2/2003	<200	27	<1	<1	<1	
	12/9/2003	<5	14	<1	<1	<1	
	3/2/2004	9	7	<1	<1	<1	
	6/8/2004	<1	1.5	<1	<1	<1	
	9/14/2004	<5	2	<0.5	<0.5	<0.5	
	12/28/2004	<5	<0.5	<0.5	<0.5	<0.5	
MW-13	3/29/2005	<5	0.6	<0.5	<0.5	<0.5	
	6/28/2005	8	0.9	<0.5	<0.5	<0.5	
	9/27/2005	8.1	1.6	<0.5	<0.5	0.75	
	8/8/2000	ND	ND	ND	ND	ND	
	9/29/2000	ND	<5.0	ND	ND	ND	
	12/7/2000	ND	<2.5	ND	ND	ND	
	3/6/2001	ND	<2.0	ND	ND	ND	
	6/21/2001	ND	<25	ND	ND	ND	
	9/18/2001	ND	<50	ND	ND	ND	
	12/19/2001	21	<5	ND	ND	ND	
	3/20/2002	ND	<1	ND	ND	ND	
	6/20/2002	ND	10	ND	ND	ND	
	9/20/2002	ND	<5	ND	ND	ND	
	12/31/2002	21	<1	ND	ND	ND	
	3/25/2003	<200	<1	<1	<1	<1	

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<----- ppb ----->					
MW-13 cont.	7/1/2003	<200	<1	<1	<1	<1	
	10/2/2003	<200	<1	<1	<1	<1	
	12/9/2003	<5	<1	<1	<1	<1	
	3/2/2004	6	2	<1	<1	<1	
	6/8/2004	<1	<1	<1	<1	<1	
	9/14/2004	<5	<0.5	<0.5	<0.5	<0.5	
	12/28/2004	<5	<0.5	<0.5	<0.5	<0.5	
	3/29/2005	<5	<0.5	<0.5	<0.5	<0.5	
	6/28/2005	17	<0.5	<0.5	<0.5	<0.5	
	9/27/2005	<5	<0.5	<0.5	<0.5	<0.5	
MW-14	3/20/2002	ND	6	ND	ND	ND	
	6/20/2002	ND	52	ND	ND	ND	
	9/20/2002	32	75	ND	ND	ND	
	12/31/2002	86	140	ND	ND	ND	
	3/25/2003	<200	63	<1	<1	<1	
	7/1/2003	<200	52	<1	<1	<1	
	10/2/2003	<200	25	<1	<1	<1	
	12/9/2003	11	22	<1	<1	<1	
	3/2/2004	61	7	<1	<1	<1	
	6/8/2004	<1	<1	<1	<1	<1	
	9/14/2004	<5	<0.5	<0.5	<0.5	<0.5	
	12/28/2004	14	<0.5	<0.5	<0.5	<0.5	
	3/29/2005	25	0.6	<0.5	<0.5	<0.5	
	6/28/2005	9	0.8	<0.5	<0.5	<0.5	
	9/27/2005	5.2	<0.5	<0.5	<0.5	<0.5	
MW-15 @ 30'	5/4/2005	2,100	22,000	5	<5	59	
	5/27/2005	2,600	23,000	0.8	5.5	50	
	9/27/2005	1,600	23,000	<0.5	6.3	46	
MW-15 @ 60'	5/4/2005	7	59	<0.5	<0.5	0.6	
	5/27/2005	<5	33	<0.5	<0.5	<0.5	
	9/27/2005	2,500	20,000	<0.5	4.6	35	

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<----- ppb ----->					
MW-15 @ 83'	5/4/2005	<5	7.3	<0.5	<0.5	0.6	
	5/27/2005	<5	68	<0.5	<0.5	<0.5	
	9/27/2005	<5	280	<0.5	<0.5	1.1	
MW-15 @ 140'	5/4/2005	2,100	19,000	<5	<5	52	
	5/27/2005	2,500	20,000	<5	<5	55	
	9/27/2005	1,500	22,000	<0.5	5.1	51	
MW-16	5/3/2005	51	120	<0.5	<0.5	0.6	
	6/27/2005	93	83	<0.5	<0.5	<0.5	
	9/27/2005	11	41	<0.5	<0.5	<0.5	
MW-17	5/3/2005	<5	32	<0.5	<0.5	<0.5	
	6/28/2005	<5	35	<0.5	<0.5	<0.5	
	9/27/2005	<5	4.5	<0.5	<0.5	<0.5	
DW-1020	6/30/1999	ND	<5.0	ND	ND	ND	
	10/1/1999	ND	<5.0	ND	ND	ND	
	1/5/2000	ND	<5.0	ND	ND	ND	
	2/8/2000	ND	<2.0	ND	ND	ND	
	3/28/2000	ND	<0.5	ND	ND	ND	
	4/21/2000	ND	<2.0	ND	ND	ND	
	5/26/2000	ND	<0.5	ND	ND	ND	
	6/26/2000	ND	<2.0	ND	ND	ND	
	7/21/2000	ND	<2.0	ND	ND	ND	
	8/29/2000	ND	<2.0	ND	ND	ND	
	9/29/2000	ND	<2.0	ND	ND	ND	
	10/3/2000	ND	<2.0	ND	ND	ND	
	12/7/2000	ND	2	ND	ND	ND	
	12/29/2000	ND	<2.0	ND	ND	ND	
	1/5/2001	ND	<2.0	ND	ND	ND	
	1/5/2001	ND	<5.0	ND	ND	ND	
	1/29/2001	ND	<5.0	ND	ND	ND	
	2/9/2001	ND	<5.0	ND	ND	ND	
	2/22/2001	ND	<2.0	ND	ND	ND	

Table 3. Analytical Results for Ground Water - Oxygenates - Redwood Oil Service Station, 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Sample Date	t-Butyl alcohol (TBA)	Methyl t-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl t-butyl ether (ETBE)	t-Amyl methyl ether (TAME)	Notes
		<-----ppb----->					
DW-1020 cont.	2/28/2001	ND	<5.0	ND	ND	ND	
	3/6/2001	ND	<2.0	ND	ND	ND	
	4/6/2001	ND	<5.0	ND	ND	ND	
	5/14/2001	ND	<5.0	ND	ND	ND	
	6/21/2001	ND	<5.0	ND	ND	ND	
	7/13/2001	ND	<5.0	ND	ND	ND	
	8/22/2001	ND	<5.0	ND	ND	ND	
	9/18/2001	ND	<5.0	ND	ND	ND	
	10/8/2001	ND	<5	ND	ND	ND	
	11/20/2001	ND	<5	ND	ND	ND	
	12/19/2001	ND	<5	ND	ND	ND	
	1/15/2002	ND	<1	ND	ND	ND	
	2/14/2002	ND	<2.0	ND	ND	ND	
	3/20/2002	ND	<1	ND	ND	ND	
	4/11/2002	ND	<5	ND	ND	ND	
	5/15/2002	ND	<5	ND	ND	ND	
	6/20/2002	ND	<1	ND	ND	ND	
	7/10/2002	ND	<5	ND	ND	ND	
	8/8/2002	ND	<5	ND	ND	ND	
	9/20/2002	ND	<5	ND	ND	ND	
	12/31/2002	ND	<1	ND	ND	ND	
	3/25/2003	<200	<1	<1	<1	<1	
	7/1/2003	<200	<1	<1	<1	<1	
	10/2/2003	<200	<1	<1	<1	<1	
	12/9/2003	<5	<1	<1	<1	<1	
	3/2/2004	<5	<1	<1	<1	<1	
	6/8/2004	<1	<1	<1	<1	<1	
	9/14/2004	<5	<0.5	<0.5	<0.5	<0.5	
	12/28/2004	<5	<0.5	<0.5	<0.5	<0.5	
	3/29/2005	<5	<0.5	<0.5	<0.5	<0.5	
	6/27/2005	<5	<0.5	<0.5	<0.5	<0.5	
	7/25/2005	<5	<0.5	<0.5	<0.5	<0.5	
	9/27/2005	<5	<0.5	<0.5	<0.5	<0.5	

Explanation:

ppb = parts per billion

Table 4. Analytical Results for Influent Samples - 1100 Bennett Valley Road, Santa Rosa, California

Sample ID	Date	TPPH(G)	TPH(D)	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	comments/lab footnotes
		<-----parts per billion-----							
Influent	12/8/2003	25,000	800	4,000	1,100	510	1,900	440	TBA detected at 320 ppb.
	2/27/2004	31,000	930	5,700	2,200	520	1,600	330	
	4/28/2004	18,000	<50	2,800	1,600	450	1,800	140	1,600 ppb hydrocarbon detected. No diesel pattern present.
	5/21/2004	12,000	<250	1,900	830	320	1,000	78	2,100 ppb hydrocarbon detected. No diesel pattern present.
									TPH(D) value reported is possibly aged gasoline. 116,000 ppb hydrocarbons (C8-C18), possible gasoline in the TPH-Diesel range.
	7/22/2004	160,000	<10,000	2,100	3,100	2,500	16,000	<200	
	7/6/2005	15,000	<50	5,100	460	510	1,400	150	1,400 ppb higher boiling gasoline compounds. No diesel pattern present.
	10/3/2005	19,000	<50	1,300	2,200	600	3,400	<100	2,000 ppb higher boiling gasoline compounds. No diesel pattern present.

TPPH(G)= Total Purgeable Petroleum Hydrocarbons as Gasoline

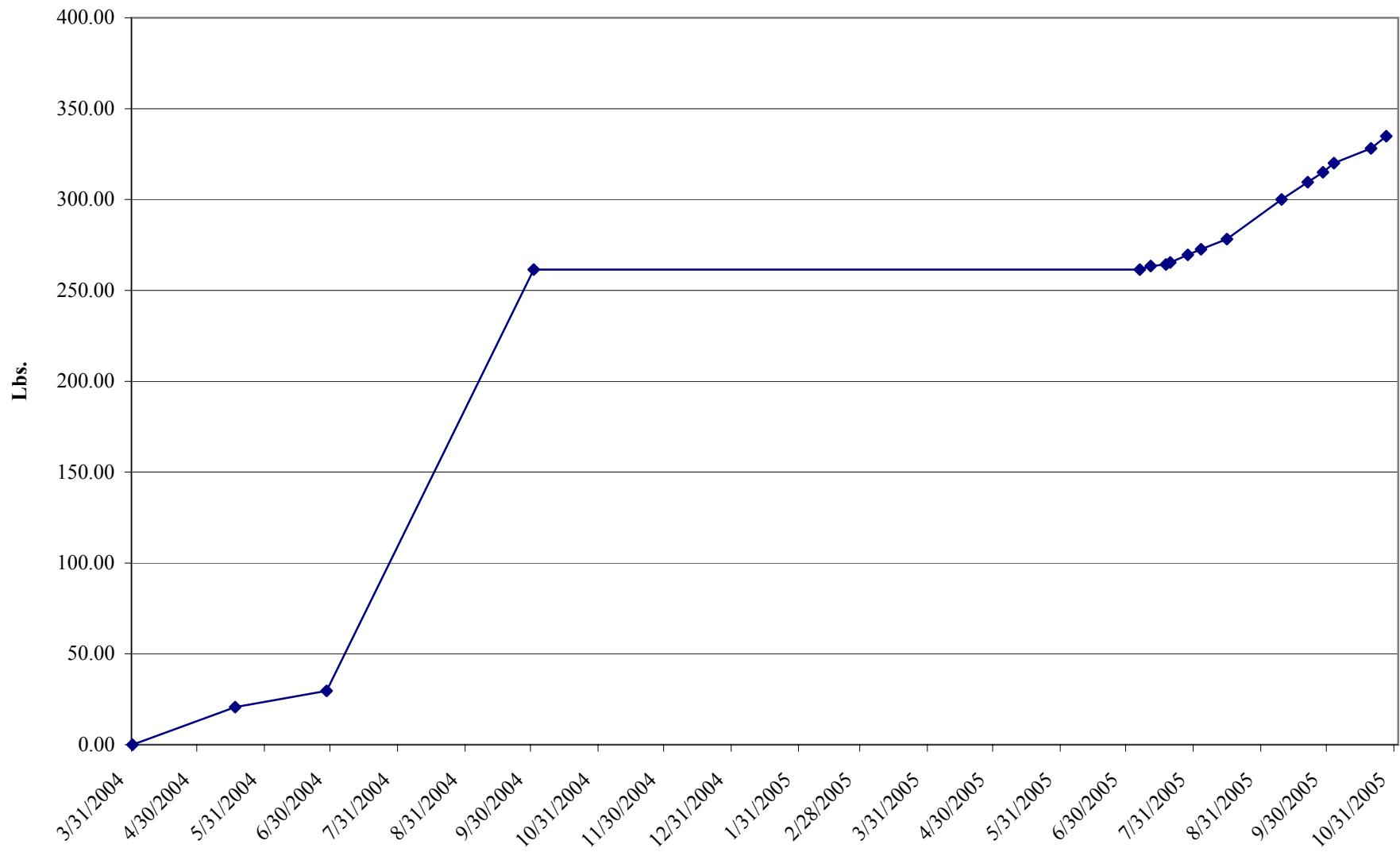
TPH(D)= Total Petroleum Hydrocarbons as Diesel

MTBE= Methyl tertiary-Butyl Ether

Table 5. Ground Water Extraction System Performance Data - Former Redwood Oil Bulk Plant, 2060 Eloise Avenue, South Lake Tahoe, California

Date	totalizer reading	flow (gallons)	daily flow rate	flow (GPM)	influent concentration TPH(G)+TPH(D) ppb	hydrocarbon removal (kg)	cumulative hydrocarbon removal (kg)	notes
3/31/2004		337,546			31,930	40.79	0.00	
5/17/2004		302,846	6,444	4.5	18,000	20.63	20.63	
6/28/2004		196,826	4,686	3.3	12,000	8.94	29.57	
10/1/2004	1,223,728	382,847	4,030	2.8	160,000	231.85	261.42	
7/6/2005	1,233,652	---	---	---	---	0.00	261.42	System off for modification.
7/11/2005	1,269,127	35,475	7,095	4.9	15,000	2.01	263.44	System restarted.
7/18/2005	1,283,613	14,486	2,069	1.4	15,000	0.82	264.26	
7/20/2005	1,302,929	19,316	9,658	6.7	15,000	1.10	265.36	
7/28/2005	1,375,885	72,956	9,120	6.3	15,000	4.14	269.50	
8/3/2005	1,430,256	54,371	9,062	6.3	15,000	3.09	272.59	
8/15/2005	1,528,525	98,269	8,189	5.7	15,000	5.58	278.17	
9/9/2005	1,912,607	384,082	15,363	10.7	15,000	21.81	299.97	
9/21/2005	2,081,415	168,808	14,067	9.8	15,000	9.58	309.56	
9/28/2005	2,177,587	96,172	13,739	9.5	15,000	5.46	315.02	
10/3/2005	2,246,794	69,207	13,841	9.6	19,000	4.98	319.99	
10/20/2005	2,360,758	113,964	6,704	4.7	19,000	8.20	328.19	
10/27/2005	2,452,479	91,721	13,103	9.1	19,000	6.60	334.79	

Cumulative Hydrocarbon Removal - GWE System



Graph 1. Ground Water Extraction System Performance Data - Former Redwood Oil Bulk Plant, 2060 Eloise Avenue, South Lake Tahoe, California

APPENDIX C

CHAIN OF CUSTODY AND LABORATORY ANALYTICAL REPORT

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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October 19, 2005

Jim Green, Project Manager
ECM Group
P.O. Box 802
Benicia, CA 94510

Dear Mr. Green:

Included are the results from the testing of material submitted on September 30, 2005 from the Bennett Valley, 98-511-14, F&BI 509268 project. There are 44 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Charlene Morrow
Charlene Morrow
Chemist

Enclosures
ECM1019R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 30, 2005 by Friedman & Bruya, Inc. from the ECM Group Bennett Valley, 98-511-14, F&BI 509268 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>ECM Group</u>
509268-01	MW-4
509268-02	MW-5
509268-03	MW-6
509268-04	MW-7
509268-05	MW-8
509268-06	MW-9
509268-07	MW-10
509268-08	MW-11
509268-09	MW-12
509268-10	MW-13
509268-11	MW-14
509268-12	MW-15d30
509268-13	MW-15d60
509268-14	MW-15d83
509268-15	MW-15d140
509268-16	MW-16
509268-17	MW-17
509268-18	DW-1020

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

Date Extracted: 10/03/05

Date Analyzed: 10/03/05 and 10/04/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING EPA METHOD 8015M**
Results Reported as µg/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u> (C ₆ -C ₁₀)	Surrogate (% Recovery) (Limit 52-150)
MW-4 d 509268-01	3,000	93
MW-5 d 509268-02	120,000	94
MW-6 509268-03	1,400	97
MW-7 d 509268-04	2,300	88
MW-8 509268-05	<100	91
MW-9 509268-06	<100	90
MW-10 509268-07	110	91
MW-11 509268-08	<100	91
MW-12 509268-09	1,800	121
MW-13 509268-10	160	90
MW-14 509268-11	310	89

d - The sample was diluted.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

Date Extracted: 10/03/05

Date Analyzed: 10/03/05 and 10/04/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING EPA METHOD 8015M**
Results Reported as µg/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u> (C ₆ -C ₁₀)	Surrogate (% Recovery) (Limit 52-150)
MW-15d30 d 509268-12	77,000	89
MW-15d60 d 509268-13	63,000	87
MW-15d83 d 509268-14	17,000	86
MW-15d140 d 509268-15	77,000	88
MW-16 509268-16	<100	88
MW-17 509268-17	<100	86
DW-1020 509268-18	<100	87
Method Blank	<100	84

d - The sample was diluted.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

Date Extracted: 09/30/05

Date Analyzed: 10/05/05 and 10/06/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL**

USING EPA METHOD 8015M

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis**

Results Reported as µg/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Surrogate (% Recovery) (Limit 68-143)
MW-4 509268-01	190	95
MW-5 509268-02	4,600	100
MW-6 509268-03	100	113
MW-7 509268-04	62	110
MW-8 509268-05	<50	103
MW-9 509268-06	<50	112
MW-10 509268-07	<50	96
MW-11 509268-08	<50	98
MW-12 509268-09	<50	73
MW-13 509268-10	<50	122
MW-14 509268-11	<50	85

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

Date Extracted: 09/30/05

Date Analyzed: 10/05/05 and 10/06/05

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

**Sample Extracts Passed Through a
Silica Gel Column Prior to Analysis
Results Reported as µg/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	Surrogate <u>(% Recovery)</u> (Limit 68-143)
MW-15d30 d 509268-12	160,000	95
MW-15d60 d 509268-13	200,000	120
MW-15d83 509268-14	90	117
MW-15d140 d 509268-15	190,000	91
MW-16 509268-16	<50	104
MW-17 509268-17	<50	123
DW-1020 509268-18	<50	102
Method Blank	<50	106

d - The sample was diluted.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-4
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-01
Data File: 093039.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	108	50	150
1,2-Dichloroethane-d4	114	50	150
Toluene-d8	119	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	380
Methyl t-butyl ether (MTBE)	230 ve
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	1.6
Benzene	400 ve
Toluene	65
Ethylbenzene	47
m,p-Xylene	85
o-Xylene	26

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-4
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-01 1/10
Data File: 093028.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	118	50	150
1,2-Dichloroethane-d4	122	50	150
Toluene-d8	114	50	150

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	210
Benzene	440

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID:	MW-5	Client:	ECM Group
Date Received:	09/30/05	Project:	98-511-14, F&BI 509268
Date Extracted:	10/11/05	Lab ID:	509268-02
Date Analyzed:	10/11/05	Data File:	101107.D
Matrix:	water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	113	50	150
1,2-Dichloroethane-d4	79	50	150
Toluene-d8	99	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	810 ve
Methyl t-butyl ether (MTBE)	620 ve
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	10
Benzene	1,700 ve
Toluene	1,500 ve
Ethylbenzene	850 ve
m,p-Xylene	2,000 ve
o-Xylene	1,100 ve

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID:	MW-5	Client:	ECM Group
Date Received:	09/30/05	Project:	98-511-14, F&BI 509268
Date Extracted:	09/30/05	Lab ID:	509268-02 1/200
Date Analyzed:	10/01/05	Data File:	093029.D
Matrix:	water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	117	50	150
1,2-Dichloroethane-d4	123	50	150
Toluene-d8	107	50	150

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	540
Benzene	29,000
Toluene	5,700
Ethylbenzene	3,800
m,p-Xylene	9,900
o-Xylene	2,600

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID:	MW-6	Client:	ECM Group
Date Received:	09/30/05	Project:	98-511-14, F&BI 509268
Date Extracted:	09/30/05	Lab ID:	509268-03
Date Analyzed:	10/01/05	Data File:	093040.D
Matrix:	water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	108	50	150
1,2-Dichloroethane-d4	114	50	150
Toluene-d8	109	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	12
Methyl t-butyl ether (MTBE)	3.1
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	280 ve
Toluene	15
Ethylbenzene	77
m,p-Xylene	100
o-Xylene	16

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID:	MW-6	Client:	ECM Group
Date Received:	09/30/05	Project:	98-511-14, F&BI 509268
Date Extracted:	09/30/05	Lab ID:	509268-03 1/10
Date Analyzed:	10/01/05	Data File:	093030.D
Matrix:	water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	118	50	150
1,2-Dichloroethane-d4	124	50	150
Toluene-d8	115	50	150

Compounds:	Concentration ug/L (ppb)
Benzene	290

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-7
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-04
Data File: 093041.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	104	50	150
1,2-Dichloroethane-d4	109	50	150
Toluene-d8	109	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	32
Methyl t-butyl ether (MTBE)	1.4
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	500 ve
Toluene	17
Ethylbenzene	41
m,p-Xylene	21
o-Xylene	9.4

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-7
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-04 1/10
Data File: 093031.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	114	50	150
1,2-Dichloroethane-d4	120	50	150
Toluene-d8	114	50	150
Concentration Compounds: Benzene		670	

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-8
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 09/30/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-05
Data File: 093017.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	114	50	150
1,2-Dichloroethane-d4	118	50	150
Toluene-d8	108	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	1.0
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	4.9
Toluene	3.9
Ethylbenzene	1.9
m,p-Xylene	5.8
o-Xylene	3.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-9
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 09/30/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-06
Data File: 093018.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	113	50	150
1,2-Dichloroethane-d4	116	50	150
Toluene-d8	117	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	<0.5
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	2.5
Toluene	3.7
Ethylbenzene	1.9
m,p-Xylene	5.9
o-Xylene	3.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-10
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 09/30/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-07
Data File: 093019.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	114	50	150
1,2-Dichloroethane-d4	118	50	150
Toluene-d8	108	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	33
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	3.6
Toluene	7.8
Ethylbenzene	2.5
m,p-Xylene	9.6
o-Xylene	5.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-11
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 09/30/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-08
Data File: 093020.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	115	50	150
1,2-Dichloroethane-d4	117	50	150
Toluene-d8	108	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	<0.5
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	2.6
Toluene	6.6
Ethylbenzene	2.2
m,p-Xylene	8.3
o-Xylene	4.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID:	MW-12	Client:	ECM Group
Date Received:	09/30/05	Project:	98-511-14, F&BI 509268
Date Extracted:	09/30/05	Lab ID:	509268-09
Date Analyzed:	10/01/05	Data File:	093042.D
Matrix:	water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	102	50	150
1,2-Dichloroethane-d4	109	50	150
Toluene-d8	108	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	8.1
Methyl t-butyl ether (MTBE)	1.6
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	0.75
Benzene	280 ve
Toluene	17
Ethylbenzene	9.1
m,p-Xylene	17
o-Xylene	10

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-12
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-09 1/10
Data File: 093032.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	118	50	150
1,2-Dichloroethane-d4	119	50	150
Toluene-d8	107	50	150

Compounds:	Concentration ug/L (ppb)
Benzene	330

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-13
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-10
Data File: 093043.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	115	50	150
1,2-Dichloroethane-d4	121	50	150
Toluene-d8	108	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	<0.5
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	19
Toluene	7.5
Ethylbenzene	4.0
m,p-Xylene	10
o-Xylene	5.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-14
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-11
Data File: 093044.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	110	50	150
1,2-Dichloroethane-d4	116	50	150
Toluene-d8	105	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	5.2
Methyl t-butyl ether (MTBE)	<0.5
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	58
Toluene	8.2
Ethylbenzene	8.3
m,p-Xylene	12
o-Xylene	5.4

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS****Analysis For Volatile Compounds By EPA Method 8260B SIM**

Client Sample ID: MW-15d30
Date Received: 09/30/05
Date Extracted: 10/11/05
Date Analyzed: 10/11/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-12
Data File: 101108.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	113	50	150
1,2-Dichloroethane-d4	92	50	150
Toluene-d8	100	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	1,900 ve
Methyl t-butyl ether (MTBE)	4,700 ve
Ethyl t-butyl ether (ETBE)	6.3
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	46
Benzene	1,900 ve
Toluene	2,400 ve
Ethylbenzene	410 ve
m,p-Xylene	990 ve
o-Xylene	720 ve

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-15d30
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-12 1/200
Data File: 093035.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	117	50	150
1,2-Dichloroethane-d4	126	50	150
Toluene-d8	99	50	150

Compounds:	Concentration ug/L (ppb)
t-Butyl alcohol (TBA)	1,600
Methyl t-butyl ether (MTBE)	23,000
Benzene	20,000
Toluene	18,000
Ethylbenzene	590
m,p-Xylene	2,300
o-Xylene	1,200

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-15d60
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-13
Data File: 093045.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	94	50	150
1,2-Dichloroethane-d4	109	50	150
Toluene-d8	106	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	1,600 ve
Methyl t-butyl ether (MTBE)	3,200 ve
Ethyl t-butyl ether (ETBE)	4.6
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	35
Benzene	1,500 ve
Toluene	1,500 ve
Ethylbenzene	320 ve
m,p-Xylene	660 ve
o-Xylene	560 ve

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-15d60
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-13 1/10
Data File: 093036.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	101	50	150
1,2-Dichloroethane-d4	114	50	150
Toluene-d8	97	50	150

Compounds:	Concentration ug/L (ppb)
t-Butyl alcohol (TBA)	2,500
Ethylbenzene	500
m,p-Xylene	1,800
o-Xylene	1,100

ve – The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-15d60
Date Received: 09/30/05
Date Extracted: 10/11/05
Date Analyzed: 10/11/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-13 1/400
Data File: 101106.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	113	50	150
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	93	50	150

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	20,000
Benzene	12,000
Toluene	9,300

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-15d83
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/07/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-14
Data File: 100620.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	131	50	150
1,2-Dichloroethane-d4	147	50	150
Toluene-d8	100	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	160 ve
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	1.1
Benzene	1,300 ve
Toluene	1,600 ve
Ethylbenzene	210 ve
m,p-Xylene	680 ve
o-Xylene	430 ve

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-15d83
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/07/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-14
Data File: 100620.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	131	50	150
1,2-Dichloroethane-d4	147	50	150
Toluene-d8	100	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	160 ve
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	1.1
Benzene	1,300 ve
Toluene	1,600 ve
Ethylbenzene	210 ve
m,p-Xylene	680 ve
o-Xylene	430 ve

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-15d83
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/07/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-14 1/100
Data File: 100618.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	146	50	150
1,2-Dichloroethane-d4	158 vo	50	150
Toluene-d8	102	50	150

Compounds:	Concentration ug/L (ppb)
Methyl t-butyl ether (MTBE)	280
Benzene	7,200
Toluene	7,300
Ethylbenzene	290
m,p-Xylene	1,100
o-Xylene	530

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & RITIYA INC

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID:	MW-15d140	Client:	ECM Group
Date Received:	09/30/05	Project:	98-511-14, F&BI 509268
Date Extracted:	09/30/05	Lab ID:	509268-15
Date Analyzed:	10/07/05	Data File:	100621.D
Matrix:	water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	108	50	150
1,2-Dichloroethane-d4	142	50	150
Toluene-d8	112	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	2,500 ve
Methyl t-butyl ether (MTBE)	4,400 ve
Ethyl t-butyl ether (ETBE)	5.1
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	51
Benzene	2,000 ve
Toluene	2,200 ve
Ethylbenzene	500 ve
m,p-Xylene	1,000 ve
o-Xylene	870 ve

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration is an estimate.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-15d140
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-15 1/200
Data File: 093038.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	117	50	150
1,2-Dichloroethane-d4	127	50	150
Toluene-d8	105	50	150

Compounds:	Concentration ug/L (ppb)
t-Butyl alcohol (TBA)	1,500
Methyl t-butyl ether (MTBE)	22,000
Benzene	19,000
Toluene	17,000
Ethylbenzene	590
m,p-Xylene	2,300
o-Xylene	1,200

Note: The sample was diluted due to the presence of high levels of material. Detection limits are raised due to dilution.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-16
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 09/30/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-16
Data File: 093021.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	113	50	150
1,2-Dichloroethane-d4	117	50	150
Toluene-d8	107	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	11
Methyl t-butyl ether (MTBE)	41
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	5.0
Toluene	5.3
Ethylbenzene	2.7
m,p-Xylene	8.3
o-Xylene	4.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: MW-17
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 09/30/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-17
Data File: 093022.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	113	50	150
1,2-Dichloroethane-d4	118	50	150
Toluene-d8	106	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	4.5
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	2.3
Toluene	4.8
Ethylbenzene	2.2
m,p-Xylene	7.4
o-Xylene	4.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: DW-1020
Date Received: 09/30/05
Date Extracted: 09/30/05
Date Analyzed: 10/01/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 509268-18
Data File: 093027.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	121	50	150
1,2-Dichloroethane-d4	124	50	150
Toluene-d8	117	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	<0.5
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylene	<1
o-Xylene	<0.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: Method Blank
Date Received: Not Applicable
Date Extracted: 09/30/05
Date Analyzed: 09/30/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 051292 mb
Data File: 093016.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	114	50	150
1,2-Dichloroethane-d4	118	50	150
Toluene-d8	119	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	<0.5
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylene	<1
o-Xylene	<0.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: Method Blank
Date Received: Not Applicable
Date Extracted: 10/06/05
Date Analyzed: 10/06/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 051321 mb
Data File: 100616.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	153 vo	50	150
1,2-Dichloroethane-d4	161 vo	50	150
Toluene-d8	118	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	<0.5
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylene	<1
o-Xylene	<0.5

vo - The value reported fell outside the control limits established for this analyte.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID:	Method Blank	Client:	ECM Group
Date Received:	Not Applicable	Project:	98-511-14, F&BI 509268
Date Extracted:	10/07/05	Lab ID:	051322 mb
Date Analyzed:	10/07/05	Data File:	100703.D
Matrix:	water	Instrument:	GCMS5
Units:	ug/L (ppb)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	133	50	150
1,2-Dichloroethane-d4	136	50	150
Toluene-d8	127	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	<0.5
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylene	<1
o-Xylene	<0.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260B SIM

Client Sample ID: Method Blank
Date Received: Not Applicable
Date Extracted: 10/11/05
Date Analyzed: 10/11/05
Matrix: water
Units: ug/L (ppb)

Client: ECM Group
Project: 98-511-14, F&BI 509268
Lab ID: 051325 mb
Data File: 101105.D
Instrument: GCMS5
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Dibromofluoromethane	116	50	150
1,2-Dichloroethane-d4	94	50	150
Toluene-d8	104	50	150

Compounds:	Concentration ug/L (ppb)
Ethanol	<1,000
t-Butyl alcohol (TBA)	<5
Methyl t-butyl ether (MTBE)	<0.5
Ethyl t-butyl ether (ETBE)	<0.5
Diisopropyl ether (DIPE)	<0.5
t-Amyl methyl ether (TAME)	<0.5
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylene	<1
o-Xylene	<0.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING EPA METHOD 8015M**

Laboratory Code: 510001-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	µg/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	µg/L (ppb)	1,000	99	66-124

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel	µg/L (ppb)	2,500	94	99	68-144	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS
OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B SIM**

Laboratory Code: 509268-17 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Ethanol	µg/L (ppb)	<1,000	<1,000	nm
t-Butyl alcohol (TBA)	µg/L (ppb)	<5	<5	nm
Methyl t-butyl ether (MTBE)	µg/L (ppb)	4.5	4.6	2
Diisopropyl ether (DIPE)	µg/L (ppb)	<0.5	<0.5	nm
Ethyl t-butyl ether (ETBE)	µg/L (ppb)	<0.5	<0.5	nm
t-Amyl methyl ether (TAME)	µg/L (ppb)	<0.5	<0.5	nm
Benzene	µg/L (ppb)	2.3	2.3	0
Toluene	µg/L (ppb)	4.8	4.7	1
Ethylbenzene	µg/L (ppb)	2.2	2.1	1
m,p-Xylene	µg/L (ppb)	7.4	7.3	1
o-Xylene	µg/L (ppb)	4.1	4.1	0

Laboratory Code: 509268-18 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Ethanol	µg/L (ppb)	500	<1,000	105	50-150
t-Butyl alcohol (TBA)	µg/L (ppb)	50	<5	116	50-150
Methyl t-butyl ether (MTBE)	µg/L (ppb)	10	<0.5	102	50-150
Diisopropyl ether (DIPE)	µg/L (ppb)	10	<0.5	101	50-150
Ethyl t-butyl ether (ETBE)	µg/L (ppb)	10	<0.5	100	50-150
t-Amyl methyl ether (TAME)	µg/L (ppb)	10	<0.5	103	50-150
Benzene	µg/L (ppb)	10	<0.5	106	50-150
Toluene	µg/L (ppb)	10	<0.5	114	50-150

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS
OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B SIM**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Ethanol	µg/L (ppb)	500	81	70-130
t-Butyl alcohol (TBA)	µg/L (ppb)	50	97	70-130
Methyl t-butyl ether (MTBE)	µg/L (ppb)	10	84	70-130
Diisopropyl ether (DIPE)	µg/L (ppb)	10	83	70-130
Ethyl t-butyl ether (ETBE)	µg/L (ppb)	10	82	70-130
t-Amyl methyl ether (TAME)	µg/L (ppb)	10	84	70-130
Benzene	µg/L (ppb)	10	86	70-130
Toluene	µg/L (ppb)	10	93	70-130

Note: The calibration verification result associated with 509268-01, 01 1/10, 02 1/200, 03, 03 1/10, 04, 04 1/10, 09, 09 1/10, 10, 11, 12 1/200, 13, 13 1/10, 15 1/200, for m,p-xylene exceeded 15% deviation. The average deviation for all compounds was less than 15%, therefore the initial calibration is considered valid.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS
OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B SIM**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Ethanol	µg/L (ppb)	2,500	113	123	70-130	10
t-Butyl alcohol (TBA)	µg/L (ppb)	250	105	110	70-130	5
Methyl t-butyl ether (MTBE)	µg/L (ppb)	50	99	105	70-130	6
Diisopropyl ether (DIPE)	µg/L (ppb)	50	106	112	70-130	6
Ethyl t-butyl ether (ETBE)	µg/L (ppb)	50	110	116	70-130	6
t-Amyl methyl ether (TAME)	µg/L (ppb)	50	110	116	70-130	6
Benzene	µg/L (ppb)	50	98	105	70-130	7
Toluene	µg/L (ppb)	50	110	117	70-130	7

Note: The initial calibration verification result associated with 509268-13 1/200, -13 1/400, -14, 14 1/100, -15 for toluene, ethylbenzene exceeded 15% deviation. The average deviation for all compounds was less than 15%, therefore the initial calibration is considered valid.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS
OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B SIM**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Ethanol	µg/L (ppb)	500	77	70-130
t-Butyl alcohol (TBA)	µg/L (ppb)	50	95	70-130
Methyl t-butyl ether (MTBE)	µg/L (ppb)	10	86	70-130
Diisopropyl ether (DIPE)	µg/L (ppb)	10	85	70-130
Ethyl t-butyl ether (ETBE)	µg/L (ppb)	10	92	70-130
t-Amyl methyl ether (TAME)	µg/L (ppb)	10	90	70-130
Benzene	µg/L (ppb)	10	76	70-130
Toluene	µg/L (ppb)	10	86	70-130
Ethylbenzene	µg/L (ppb)	10	93	70-130

Date of Report: 10/19/05

Date Received: 09/30/05

Project: Bennett Valley, 98-511-14, F&BI 509268

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS
OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B SIM**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Ethanol	µg/L (ppb)	500	96	95	70-130	1
t-Butyl alcohol (TBA)	µg/L (ppb)	50	76	79	70-130	3
Methyl t-butyl ether (MTBE)	µg/L (ppb)	10	96	104	70-130	8
Diisopropyl ether (DIPE)	µg/L (ppb)	10	75	79	70-130	4
Ethyl t-butyl ether (ETBE)	µg/L (ppb)	10	85	90	70-130	5

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Jim Green
ECM Group
290 W. Channel Rd.
Benicia, CA 94510

Certificate ID: 44304 - 7/14/2005 5:47:43 PM

Order Number: 44304

Date Received: 7/8/2005 2:14:41 PM

Project Name: Bennett Valley

Project Number: 98-511-66

Certificate of Analysis - Final Report

On July 08, 2005, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Liquid	EPA 8260B - GC/MS	
	TPH as Gasoline by GC/MS	
	TPH-Extractable w/SGCU	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

ECM Group
290 W. Channel Rd.
Benicia, CA 94510
Attn: Jim Green

Project ID: 98-511-66
Date Received: 7/8/2005

Sample Collected by: Client

Certificate of Analysis - Data Report

Lab #: 44304-001 Sample ID: INFLUENT Matrix: Liquid Sample Date: 7/6/2005 12:30 PM

EPA 3510C EPA 8015 MOD.(Extractable with Silica Gel Cleanup)							TPH-Extractable-SGCU		
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	50	µg/L	7/8/2005	DW050708S	7/11/2005	DW050708S

1400 ppb higher boiling gasoline compounds (C8-C18). No Diesel pattern present .

Surrogate	Surrogate Recovery	Control Limits (%)		Analyzed by: JHsiang
o-Terphenyl	86.0	16 - 137		Reviewed by: dba

EPA 5030B EPA 8260B EPA 624							8260 Petroleum		
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	5100		100	50	µg/L	N/A	N/A	7/13/2005	WMS1050713
Toluene	460		100	50	µg/L	N/A	N/A	7/13/2005	WMS1050713
Ethyl Benzene	510		100	50	µg/L	N/A	N/A	7/13/2005	WMS1050713
Xylenes, Total	1400		100	50	µg/L	N/A	N/A	7/13/2005	WMS1050713
Methyl-t-butyl Ether	150		100	100	µg/L	N/A	N/A	7/13/2005	WMS1050713
tert-Butyl Ethyl Ether	ND		100	500	µg/L	N/A	N/A	7/13/2005	WMS1050713
tert-Butanol (TBA)	1500		100	1000	µg/L	N/A	N/A	7/13/2005	WMS1050713
Diisopropyl Ether	ND		100	500	µg/L	N/A	N/A	7/13/2005	WMS1050713
tert-Amyl Methyl Ether	ND		100	500	µg/L	N/A	N/A	7/13/2005	WMS1050713

Surrogate	Surrogate Recovery	Control Limits (%)		Analyzed by: XBian
4-Bromofluorobenzene	99.1	70 - 125		Reviewed by: bdhabalia
Dibromofluoromethane	101	70 - 125		
Toluene-d8	96.1	70 - 125		

EPA 5030B GC-MS							TPH as Gasoline - GC-MS		
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	15000		100	5000	µg/L	N/A	N/A	7/13/2005	WMS1050713

Surrogate	Surrogate Recovery	Control Limits (%)		Analyzed by: XBian
4-Bromofluorobenzene	105	70 - 125		Reviewed by: bdhabalia
Dibromofluoromethane	92.2	70 - 125		
Toluene-d8	93.8	70 - 125		

Detection Limit = Detection Limit for Reporting.

DF = Dilution and/or Prep Factor including sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

7/14/2005 5:49:00 PM - dba

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

ECM Group
290 W. Channel Rd.
Benicia, CA 94510
Attn: Jim Green

Project ID: 98-511-66
Date Received: 7/8/2005

Sample Collected by: Client

Certificate of Analysis - Data Report

Lab #: 44304-002 Sample ID: MID Matrix: Liquid Sample Date: 7/6/2005 12:35 PM

EPA 3510C EPA 8015 MOD.(Extractable with Silica Gel Cleanup)								TPH-Extractable-SGCU	
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	50	µg/L	7/8/2005	DW050708S	7/11/2005	DW050708S
Surrogate o-Terphenyl	Surrogate Recovery 88.4			Control Limits (%) 16 - 137				Analyzed by: JHsiang	

EPA 5030B EPA 8260B EPA 624								8260Petroleum	
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.50	µg/L	N/A	N/A	7/12/2005	WMS1050712
Toluene	ND		1	0.50	µg/L	N/A	N/A	7/12/2005	WMS1050712
Ethyl Benzene	ND		1	0.50	µg/L	N/A	N/A	7/12/2005	WMS1050712
Xylenes, Total	ND		1	0.50	µg/L	N/A	N/A	7/12/2005	WMS1050712
Methyl-t-butyl Ether	ND		1	1.0	µg/L	N/A	N/A	7/12/2005	WMS1050712
tert-Butyl Ethyl Ether	ND		1	5.0	µg/L	N/A	N/A	7/12/2005	WMS1050712
tert-Butanol (TBA)	170		1	10	µg/L	N/A	N/A	7/12/2005	WMS1050712
Diisopropyl Ether	ND		1	5.0	µg/L	N/A	N/A	7/12/2005	WMS1050712
tert-Amyl Methyl Ether	ND		1	5.0	µg/L	N/A	N/A	7/12/2005	WMS1050712
Surrogate	Surrogate Recovery			Control Limits (%)				Analyzed by: XBian	
4-Bromofluorobenzene	99.6			70 - 125				Reviewed by: BDhabalia	
Dibromofluoromethane	109			70 - 125					
Toluene-d8	97.8			70 - 125					

EPA 5030B GC-MS								TPH as Gasoline - GC-MS	
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	50	µg/L	N/A	N/A	7/12/2005	WMS1050712
Surrogate	Surrogate Recovery			Control Limits (%)				Analyzed by: XBian	

4-Bromofluorobenzene 106 70 - 125 Reviewed by: BDhabalia

Dibromofluoromethane 100 70 - 125

Toluene-d8 95.4 70 - 125

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

DF = Dilution and/or Prep Factor including sample volume adjustments.

Qual = Data Qualifier

7/14/2005 5:49:01 PM - dba

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8015 MOD.(Extractable with Silica Gel Cleanup) - TPH-Extractable-SGCU

QC/Prep Batch ID: DW050708S

Validated by: dba - 07/11/05

QC/Prep Date: 7/8/2005

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
o-Terphenyl	72.8	16 - 137

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control Sample / Duplicate - Liquid - EPA 8015 MOD.(Extractable with Silica Gel Cleanup) - TPH-Extractable-SGCU

QC/Prep Batch ID: DW050708S

Reviewed by: dba - 07/11/05

QC/Prep Date: 7/8/2005

LCS

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel		<50	1000	657	µg/L	65.7	35 - 109
TPH as Motor Oil		<250	1000	827	µg/L	82.7	30 - 132
Surrogate	% Recovery Control Limits						
o-Terphenyl		81.3	16 - 137				

LCSD

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel		<50	1000	716	µg/L	71.6	8.6	25.0	35 - 109
TPH as Motor Oil		<250	1000	939	µg/L	93.9	13	25.0	30 - 132
Surrogate	% Recovery Control Limits								
o-Terphenyl		85.8	16 - 137						

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WMS1050712

Validated by: BDhabalia - 07/13/05

QC Batch Analysis Date: 7/12/2005

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	96.6	70 - 125
Dibromofluoromethane	99.8	70 - 125
Toluene-d8	98.1	70 - 125

Method Blank - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WMS1050712

Validated by: BDhabalia - 07/13/05

QC Batch Analysis Date: 7/12/2005

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L
Surrogate for Blank	% Recovery	Control Limits		
4-Bromofluorobenzene	102	70 - 125		
Dibromofluoromethane	91.3	70 - 125		
Toluene-d8	95.8	70 - 125		

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WMS1050712

Reviewed by: BDhabalia - 07/13/05

QC Batch ID Analysis Date: 7/12/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	20	21.2	µg/L	106	70 - 130
Methyl-t-butyl Ether	<1.0	20	22.5	µg/L	112	70 - 130
Toluene	<0.50	20	20.3	µg/L	102	70 - 130
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	99.7	70	-	125		
Dibromofluoromethane	103	70	-	125		
Toluene-d8	96.2	70	-	125		

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	20	19.3	µg/L	96.5	9.4	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	21.7	µg/L	108	3.6	25.0	70 - 130
Toluene	<0.50	20	18.6	µg/L	93.0	8.7	25.0	70 - 130
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	99.4	70	-	125				
Dibromofluoromethane	103	70	-	125				
Toluene-d8	95.3	70	-	125				

Laboratory Control Sample / Duplicate - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WMS1050712

Reviewed by: BDhabalia - 07/13/05

QC Batch ID Analysis Date: 7/12/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	120	112	µg/L	89.6	65 - 135
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	102	70	-	125		
Dibromofluoromethane	91	70	-	125		
Toluene-d8	96.1	70	-	125		

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	106	µg/L	85.0	0.0	25.0	65 - 135
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	103	70	-	125				
Dibromofluoromethane	91.8	70	-	125				
Toluene-d8	95.8	70	-	125				

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WMS1050712

Reviewed by: BDhabalia - 07/13/05

QC Batch ID Analysis Date: 7/12/2005

MS Sample Spiked: 44303-001

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Benzene	ND	20	19.8	µg/L	7/12/2005	99.0	70 - 130
Methyl-t-butyl Ether	1.60	20	22.8	µg/L	7/12/2005	106	70 - 130
Toluene	ND	20	19.9	µg/L	7/12/2005	99.5	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	96.8	70 - 125
Dibromofluoromethane	103	70 - 125
Toluene-d8	99.1	70 - 125

MSD Sample Spiked: 44303-001

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	ND	20	20.2	µg/L	7/12/2005	101	2.0	25.0	70 - 130
Methyl-t-butyl Ether	1.60	20	23.0	µg/L	7/12/2005	107	0.94	25.0	70 - 130
Toluene	ND	20	20.8	µg/L	7/12/2005	104	4.4	25.0	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	92.6	70 - 125
Dibromofluoromethane	103	70 - 125
Toluene-d8	102	70 - 125

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WMS1050713

Validated by: bdhabalia - 07/14/05

QC Batch Analysis Date: 7/13/2005

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank % Recovery Control Limits

4-Bromofluorobenzene	97.4	70 - 125
Dibromofluoromethane	100	70 - 125
Toluene-d8	97.7	70 - 125

Method Blank - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WMS1050713

Validated by: bdhabalia - 07/14/05

QC Batch Analysis Date: 7/13/2005

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L

Surrogate for Blank % Recovery Control Limits

4-Bromofluorobenzene	103	70 - 125
Dibromofluoromethane	91.7	70 - 125
Toluene-d8	95.4	70 - 125

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WMS1050713

Reviewed by: bdhabalia - 07/14/05

QC Batch ID Analysis Date: 7/13/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	20	20.9	µg/L	104	70 - 130
Methyl-t-butyl Ether	<1.0	20	23.2	µg/L	116	70 - 130
Toluene	<0.50	20	19.6	µg/L	98.0	70 - 130
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	100	70	-	125		
Dibromofluoromethane	104	70	-	125		
Toluene-d8	94.4	70	-	125		

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	20	21.4	µg/L	107	2.4	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	23.6	µg/L	118	1.7	25.0	70 - 130
Toluene	<0.50	20	20.5	µg/L	102	4.5	25.0	70 - 130
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	99.6	70	-	125				
Dibromofluoromethane	104	70	-	125				
Toluene-d8	94	70	-	125				

Laboratory Control Sample / Duplicate - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WMS1050713

Reviewed by: bdhabalia - 07/14/05

QC Batch ID Analysis Date: 7/13/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	120	115	µg/L	91.9	65 - 135
Surrogate	% Recovery	Control Limits				
4-Bromofluorobenzene	104	70	-	125		
Dibromofluoromethane	91.8	70	-	125		
Toluene-d8	94	70	-	125		

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	111	µg/L	88.5	3.8	25.0	65 - 135
Surrogate	% Recovery	Control Limits						
4-Bromofluorobenzene	102	70	-	125				
Dibromofluoromethane	90.9	70	-	125				
Toluene-d8	93.8	70	-	125				

Entech Analytical Labs, Inc.

(408) 588-0200
 3334 Victor Court
 Santa Clara, CA 95054

Chain of Custody / Analysis Request

Attention to:	Jim Green		Phone No.:	707-751-0655		Purchase Order No.:			Invoice to: (If Different)			Phone:															
Company Name:	ECM Group		Fax No.:	767-751-0653		Project No.:	98-511-66		Company:	RENOVO OIL CO.		Quote No.:															
Mailing Address:	P.O. Box 802		Email Address:			Project Name:	BENNETT VALLEY		Billing Address: (If Different)																		
City:	BENICIA		State:	CA		Zip Code:	94510		City:			State: Zip:															
Sampler:	Field Org. Code:	Turn Around Time		Matrix		No. of Containers	GC/MS Methods		GC Methods		General Chemistry		Remarks														
Miss Mission		<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day	<input type="checkbox"/> 3 Day	<input type="checkbox"/> 5 Day																						
Global ID:		<input type="checkbox"/> 2 Day	<input type="checkbox"/> 4 Day	<input checked="" type="checkbox"/> 10 Day																							
Order ID: 94304																											
<table border="1"> <thead> <tr> <th>Client ID / Field Point</th> <th>Lab. No.</th> <th>Date</th> <th>Time</th> <th>Sample</th> </tr> </thead> <tbody> <tr> <td>INFILTRANT</td> <td>001</td> <td>7/16/05</td> <td>13:30</td> <td>X</td> </tr> <tr> <td>MID</td> <td>002</td> <td>7/16/05</td> <td>13:40</td> <td>X</td> </tr> </tbody> </table>													Client ID / Field Point	Lab. No.	Date	Time	Sample	INFILTRANT	001	7/16/05	13:30	X	MID	002	7/16/05	13:40	X
Client ID / Field Point	Lab. No.	Date	Time	Sample																							
INFILTRANT	001	7/16/05	13:30	X																							
MID	002	7/16/05	13:40	X																							
Reinquished by:	<i>Jim Green</i>		Date:	7/18/05		Time:	04:34		Time:	12:30		Special Instructions or Comments															
Reinquished by:	<i>Jim Green</i>		Date:	7/18/05		Time:	14:45		Time:	12:35		Use Turns listed below															
Reinquished by:	<i>Jim Green</i>		Date:			Time:			Time:			per Jim Green															
<input type="checkbox"/> EDD Report <input type="checkbox"/> EDF Report <input type="checkbox"/> Plating <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17 Metals: Al, As, Sb, Ba, Be, Bi, Cd, Ce, Ca, Cr, Co, Cs, Cu, Fe, Pb, Mg, Mn, Ga, Ge, Hg, In, Li, Mo, Ni, P, K, Si, Ag, Na, S, Se, Sr, Ta, Te, Ti, Sn, Ti, Zn, V, W, Zr																											

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Jim Green

ECM Group

290 W. Channel Rd.

Benicia, CA 94510

Certificate Number: 45674

Issued: 10/17/2005

Project Number: 98-511-66

Project Name: Bennett Valley

Order / Lab Number: 45674

P.O. Number: 98-511-66

Global ID: T0609700639

Certificate of Analysis - Final Report

On October 06, 2005, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Liquid	EDF TPH-Extractable-SGCU EPA 8260B EPA 624 TPH as Gasoline - GC-MS	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Erin Cunniffe
Laboratory Operations Manager

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

ECM Group
290 W. Channel Rd.
Benicia, CA 94510
Attn: Jim Green

Date Received: 10/6/2005 12:02:48 PM

Project Number: 98-511-66
Project Name: Bennett Valley
GlobalID: T0609700639
P.O. Number: 98-511-66
Sample Collected by: Client

Certificate of Analysis - Data Report

Lab #: 45674-001 Sample ID: Influent Matrix: Liquid Sample Date: 10/3/2005 11:35 AM

EPA 3510C EPA 8015 MOD.(Extractable with Silica Gel Cleanup)								TPH-Extractable-SGCU	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		2.0	100	µg/L	10/7/2005	DW051007BS	10/13/2005	DW051007BS

2000ppb higher boiling gasoline compound(C8-C18). No Diesel pattern.

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: EricKum
o-Terphenyl	45.9	16 - 137	Reviewed by: dba

EPA 5030C EPA 8260B EPA 624								8260 Petroleum	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	1300		100	50	µg/L	N/A	N/A	10/13/2005	WM1051013
Toluene	2200		100	50	µg/L	N/A	N/A	10/13/2005	WM1051013
Ethyl Benzene	600		100	50	µg/L	N/A	N/A	10/13/2005	WM1051013
Xylenes, Total	3400		100	50	µg/L	N/A	N/A	10/13/2005	WM1051013
Methyl-t-butyl Ether	ND		100	100	µg/L	N/A	N/A	10/13/2005	WM1051013
tert-Butyl Ethyl Ether	ND		100	500	µg/L	N/A	N/A	10/13/2005	WM1051013
tert-Butanol (TBA)	ND		100	1000	µg/L	N/A	N/A	10/13/2005	WM1051013
Diisopropyl Ether	ND		100	500	µg/L	N/A	N/A	10/13/2005	WM1051013
tert-Amyl Methyl Ether	ND		100	500	µg/L	N/A	N/A	10/13/2005	WM1051013

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: XBian
4-Bromofluorobenzene	92.0	70 - 130	Reviewed by: MaiChiTu
Dibromofluoromethane	110	70 - 130	
Toluene-d8	105	70 - 130	

EPA 5030C GC-MS								TPH as Gasoline - GC-MS	
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	19000		100	5000	µg/L	N/A	N/A	10/13/2005	WM1051013

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: XBian
4-Bromofluorobenzene	103	70 - 130	Reviewed by: MaiChiTu
Dibromofluoromethane	100	70 - 130	
Toluene-d8	98.7	70 - 130	

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

ECM Group
290 W. Channel Rd.
Benicia, CA 94510
Attn: Jim Green

Date Received: 10/6/2005 12:02:48 PM

Project Number: 98-511-66
Project Name: Bennett Valley
GlobalID: T0609700639
P.O. Number: 98-511-66
Sample Collected by: Client

Certificate of Analysis - Data Report

Lab # : 45674-002 Sample ID: MID Matrix: Liquid Sample Date: 10/3/2005 12:00 PM

EPA 3510C EPA 8015 MOD.(Extractable with Silica Gel Cleanup)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	50	µg/L	10/7/2005	DW051007BS	10/12/2005	DW051007BS

Surrogate
o-Terphenyl

Surrogate Recovery

Control Limits (%)

Analyzed by: EricKum

46.8

16 - 137

Reviewed by: ECunniffe

EPA 5030C EPA 8260B EPA 624

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/13/2005	WM1051013
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	10/13/2005	WM1051013
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	10/13/2005	WM1051013
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	10/13/2005	WM1051013
Methyl-t-butyl Ether	82		1.0	1.0	µg/L	N/A	N/A	10/13/2005	WM1051013
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	10/13/2005	WM1051013
tert-Butanol (TBA)	99		1.0	10	µg/L	N/A	N/A	10/13/2005	WM1051013
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	10/13/2005	WM1051013
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	10/13/2005	WM1051013

Surrogate

Surrogate Recovery

Control Limits (%)

Analyzed by: XBian

4-Bromofluorobenzene

95.7

70 - 130

Reviewed by: MaiChiTu

Dibromofluoromethane

118

70 - 130

Toluene-d8

108

70 - 130

EPA 5030C GC-MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	81		1.0	50	µg/L	N/A	N/A	10/13/2005	WM1051013

Surrogate

Surrogate Recovery

Control Limits (%)

Analyzed by: XBian

4-Bromofluorobenzene

108

70 - 130

Reviewed by: MaiChiTu

Dibromofluoromethane

108

70 - 130

Toluene-d8

102

70 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8015 MOD.(Extractable with Silica Gel Cleanup) - TPH-Extractable-SGCU

QC/Prep Batch ID: DW051007BS

Validated by: dba - 10/10/05

QC/Prep Date: 10/7/2005

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
o-Terphenyl	18.3	16 - 137

Laboratory Control Sample / Duplicate - Liquid - EPA 8015 MOD.(Extractable with Silica Gel Cleanup) - TPH-Extractable-SGCU

QC/Prep Batch ID: DW051007BS

Reviewed by: dba - 10/10/05

QC/Prep Date: 10/7/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	836	µg/L	83.6	35 - 109
TPH as Motor Oil	<200	1000	705	µg/L	70.5	30 - 132

Surrogate	% Recovery	Control Limits
o-Terphenyl	69.1	16 - 137

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	874	µg/L	87.4	4.5	25.0	35 - 109
TPH as Motor Oil	<200	1000	655	µg/L	65.5	7.4	25.0	30 - 132

Surrogate	% Recovery	Control Limits
o-Terphenyl	68.9	16 - 137

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM1051013

Validated by: MaiChiTu - 10/14/05

QC Batch Analysis Date: 10/13/2005

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank % Recovery Control Limits

4-Bromofluorobenzene	91.7	70 - 130
Dibromofluoromethane	113	70 - 130
Toluene-d8	110	70 - 130

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM1051013

Reviewed by: MaiChiTu - 10/14/05

QC Batch ID Analysis Date: 10/13/2005

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	20	20.3	µg/L	102	70 - 130
Methyl-t-butyl Ether	<1.0	20	17.7	µg/L	88.5	70 - 130
Toluene	<0.50	20	21.2	µg/L	106	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	86.6	70 - 130
Dibromofluoromethane	104	70 - 130
Toluene-d8	98.7	70 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	20	20.2	µg/L	101	0.49	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	17.7	µg/L	88.5	0.0	25.0	70 - 130
Toluene	<0.50	20	20.7	µg/L	104	2.4	25.0	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	86.2	70 - 130
Dibromofluoromethane	100	70 - 130
Toluene-d8	97	70 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM1051013

Reviewed by: MaiChiTu - 10/14/05

QC Batch ID Analysis Date: 10/13/2005

MS Sample Spiked: 45677-001

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Benzene	ND	20	20.5	µg/L	10/13/2005	102	70 - 130
Toluene	ND	20	22.0	µg/L	10/13/2005	110	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	86.6	70 - 130
Dibromofluoromethane	100	70 - 130
Toluene-d8	98.9	70 - 130

MSD Sample Spiked: 45677-001

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	ND	20	20.3	µg/L	10/13/2005	102	0.98	25.0	70 - 130
Toluene	ND	20	21.4	µg/L	10/13/2005	107	2.8	25.0	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	86.3	70 - 130
Dibromofluoromethane	100	70 - 130
Toluene-d8	96.8	70 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM1051013

Validated by: MaiChiTu - 10/14/05

QC Batch Analysis Date: 10/13/2005

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	106	70 - 130
Dibromofluoromethane	103	70 - 130
Toluene-d8	103	70 - 130

Laboratory Control Sample / Duplicate - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM1051013

Reviewed by: MaiChiTu - 10/14/05

QC Batch ID Analysis Date: 10/13/2005

LCS	Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
	TPH as Gasoline	<25	120	131	µg/L	105	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	99.3	70 - 130
Dibromofluoromethane	93.6	70 - 130
Toluene-d8	97.8	70 - 130

LCSD	Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
	TPH as Gasoline	<25	120	125	µg/L	100	4.3	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	99.1	70 - 130
Dibromofluoromethane	93.1	70 - 130
Toluene-d8	97.2	70 - 130

APPENDIX D

WATER SAMPLING DATA SHEETS

1 of 2

ECM group

WATER LEVEL & PRODUCT MEASUREMENTS

PROJECT NAME & NUMBER: GENNARO VALLEY
98-5114

DATE: 9/27/05
 BY: MST

WELL ID	TIME MEASURED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH	COMMENTS: (well condition, odor, etc.)
MW-4			8.51	18.85	2"
MW-5			10.32	19.00	2"
MW-6			10.87	19.05	2"
MW-7			11.42	19.30	2"
MW-8			7.88	18.75	2"
MW-9			8.49	20.15	2"
MW-10			10.52	20.00	2"
MW-11			10.82	20.00	2"
MW-12			10.91	20.00	2"
MW-13			11.80	19.95	2"
MW-14			11.30	20.10	2"
MW-16			11.21	40.50	2"
MW-17			13.54	40.10	2"

WATER LEVEL & PRODUCT MEASUREMENTS

2 of 2
ECM group

PROJECT NAME & NUMBER: BENNETT VALLEY
98-511-14

DATE: 9/27/05
BY: H.S.

WATER SAMPLING DATA

Job Name BENNETT VAHEY Job Number 98-511-14
 Well Number MWB-4 Date 9/27/03 Time _____
 Well Diameter 2" Well Depth (spec.) _____ Well Depth (sounded) 18.85
 Depth to Water (static) 8.51 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 10.34 Volume 1.68 gallons
 Total to be evacuated = 3 x Initial Volume 5.05 gallons

Formulas/Conversion

r = well radius in ft
 h = ht of water col. in ft
 vol. in cyl. = $\pi r^2 h$
 $1.48 \text{ gal}/\text{ft}^3$
 $V_1 \text{ " casing} = 0.163 \text{ gal}/\text{ft}$
 $V_2 \text{ " casing} = 0.347 \text{ gal}/\text{ft}$
 $V_3 \text{ " casing} = 0.653 \text{ gal}/\text{ft}$
 $V_{12} \text{ " casing} = 0.826 \text{ gal}/\text{ft}$
 $V_4 \text{ " casing} = 1.47 \text{ gal}/\text{ft}$

<u>Stop Time</u>	<u>Start Time</u>	<u>Bailed</u>	<u>Pumped</u>	<u>Cum. Gal.</u>

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____

Water color _____ Odor _____

Description of sediments or material in sample: _____

Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
-------------	---	---	---	---	---	---	---

Time _____

Gallons _____

Temp. (degree F) 71.9 72.0 71.4

pH 6.82 6.22 6.83

EC (microhos/cm) _____

Special Conditions: _____

SAMPLES COLLECTED

Sample	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (IR; NR)	Lab (Init)	Analysis Requested
10 ml	cap	*	*	*	*	*

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)

Cap Codes: Py = Polysulf; V = VOA/Teflon septa; M = Metal.

14:45

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-51(-14)
 Well Number MW-5 Date 9/27/03 Time _____
 Well Diameter 2" Well Depth (spaced) _____ Well Depth (sounded) 19.00
 Depth to Water (static) 10.32 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 8.68 Volume 1.41 gallons
 Total to be evacuated = $3 \times$ Initial Volume 4.24 gallons

Equations/Conversions
 $r = \text{well radius in ft}$
 $h = \text{ht of water col. in ft}$
 $\text{vol. in cyl.} = \pi r^2 h$
 1.48 gal/ft^3
 $V_{1/2} \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{1/4} \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{1/8} \text{ casing} = 0.653 \text{ gal/ft}$
 $V_{1/16} \text{ casing} = 0.826 \text{ gal/ft}$
 $V_{1/32} \text{ casing} = 1.47 \text{ gal/ft}$

Stop Time	Start Time	Bailed	Pumped	Cum. Gal.

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
Time							
Gallons							
Temp. (degree F)	<u>71.9</u>	<u>70.8</u>	<u>70.3</u>				
pH	<u>6.31</u>	<u>6.25</u>	<u>6.28</u>				
EC (umhos/cm)	<u>810</u>	<u>220</u>	<u>240</u>				

Special Conditions _____

SAMPLES COLLECTED

Sample	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested
10 ml						

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)

Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

18.25

WATER SAMPLING DATA

Job Name	<u>BENNETT VALLEY</u>	Job Number	<u>98-511-14</u>
Well Number	<u>MN-6</u>	Date	<u>9/27/05</u>
Well Diameter	<u>2"</u>	Well Depth (spec.)	
Depth to Water (static)	<u>10.87'</u>	TOC elev.	
G.W. Elev.		Maximum Drawdown Limit (if applicable)	
Initial height of water in casing	<u>8.18</u>	Volume	<u>1.33</u> gallons
Total to be evacuated = 3 x Initial Volume			<u>4.00</u> gallons

<u>Stop Time</u>	<u>Start Time</u>	<u>Bailed</u>	<u>Pumped</u>	$V_f = 1.07 \text{ gal/l}$	<u>Cum. Gal.</u>
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It is not clear whether this is a
true or false result.

Vol. 111 Eng. & Tech.

100 pages

V_1 Chasing = 0.163 $\mu\text{M/l}$

$V_{\text{cav}} = 11.567 \text{ ml/l}$

$\Delta V = 0.275 \text{ mV}$

Cum. Gal.

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
Water color _____ Odor _____
Description of sediments or material in sample: _____
Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
Time							
Gallons							
Temp. (degree F)	71.1	68.7	69.2				
pH	6.42	6.46	6.48				
EC (umhos/cm)	980	930	920				

SAMPLES COLLECTED

Sample ID ml	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested
--------------	-------------	--------------------	---------------------	-----------------	------------	--------------------

Bottom: B = Polyethylene; Br = Polypropylene; C or G = Clear/Brown Glass; O = Other (listed below)

Ceo Codes: Rx = Polyvinyl; V = Vinylpropylene; C or B = Chloro

11:56

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-7 Date 9/24/05 Time _____
 Well Diameter 2" Well Depth (spec.) _____ Well Depth (sounded) 19.30
 Depth to Water (static) 11.42 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

 Initial height of water in casing 7.88 Volume 1.28 gallons
 Total to be evacuated = $3 \times$ Initial Volume 3.85 gallons

Formulas/Conversions	
$r =$ well radius in ft	
$h =$ ht of water col. in ft	
$\text{vol. in cyl.} = \pi r^2 h$	
$7.48 \text{ gal}/\text{ft}^3$	
$V_{1/2}'' \text{ casing} = 0.163 \text{ gal}/\text{ft}$	
$V_{1/4}'' \text{ casing} = 0.367 \text{ gal}/\text{ft}$	
$V_{1/8}'' \text{ casing} = 0.653 \text{ gal}/\text{ft}$	
$V_{1/16}'' \text{ casing} = 1.826 \text{ gal}/\text{ft}$	
$V_{1/32}'' \text{ casing} = 1.47 \text{ gal}/\text{ft}$	

Stop Time Start Time Bailed Pumped

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
-------------	---	---	---	---	---	---	---

Time _____

Gallons _____

Temp. (degree F) 70.8 69.5

pH 6.39 6.46

EC (umhos/cm) 350 360

Special Conditions _____

SAMPLES COLLECTED

Sample ID ml	Bottle/cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested
--------------	------------	--------------------	---------------------	-----------------	------------	--------------------

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)
 Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

13:45

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-8 Date 9/27/05 Time _____
 Well Diameter 2" Well Depth (spec.) _____ Well Depth (sounded) 18.75
 Depth to Water (static) 7.88 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 10.87 Volume 1.77 gallons
 Total to be evacuated = $3 \times$ Initial Volume 5.31 gallons

Formulas/Conversion
 $r =$ well radius in ft
 $h =$ ht of water col. in ft
 $\text{vol. in cyl.} = \pi r^2 h$
 1.41 gal/ft^3
 $V_{1/2} \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{1/4} \text{ casing} = 0.307 \text{ gal/ft}$
 $V_{3/4} \text{ casing} = 0.653 \text{ gal/ft}$
 $V_{1\text{ }} \text{ casing} = 0.926 \text{ gal/ft}$
 $V_{1\frac{1}{2}} \text{ casing} = 1.47 \text{ gal/ft}$

Stop Time	Start Time	Bailed	Pumped	Cum. Gal.

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
Time							
Gallons							
Temp. (degree F)	<u>71.5</u>	<u>70.5</u>	<u>69.9</u>				
pH	<u>6.60</u>	<u>6.56</u>	<u>6.56</u>				
EC (umhos/cm)							
Special Conditions							

SAMPLES COLLECTED

Sample ID ml	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Unit)	Analysis Requested

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)

Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

14.05

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-9 Date 9/27/05 Time _____
 Well Diameter 24" Well Depth (spec.) _____ Well Depth (sounded) 20.15
 Depth to Water (static) 8.49 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 11.66 Volume 1.90 gallons
 Total to be evacuated = $3 \times$ Initial Volume 5.70 gallons

Formulas/Conversions $r = \text{well radius in ft}$ $h = \text{ht of water col. in ft}$ $\text{vol. in cyl.} = \pi r^2 h$ $7.48 \text{ gal}/\text{ft}^3$ $V_{\frac{1}{2}}" \text{ casing} = 0.163 \text{ gal}/\text{ft}$ $V_{\frac{3}{4}}" \text{ casing} = 0.367 \text{ gal}/\text{ft}$ $V_{\frac{1}{2}}" \text{ casing} = 0.653 \text{ gal}/\text{ft}$ $V_{\frac{3}{4}}" \text{ casing} = 1.826 \text{ gal}/\text{ft}$ $V_1" \text{ casing} = 1.47 \text{ gal}/\text{ft}$

<u>Stop Time</u>	<u>Start Time</u>	<u>Bailed</u>	<u>Pumped</u>	<u>Cum. Gal.</u>

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____

Description of sediments or material in sample: _____

Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
-------------	---	---	---	---	---	---	---

Time _____

Gallons _____

Temp. (degree F) 72.2 71.9 70.4

pH 6.60 6.56 6.60

EC (umhos/cm) 830 890 870

Special Conditions _____

SAMPLES COLLECTED

Sample ID ml	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested
--------------	-------------	--------------------	---------------------	-----------------	------------	--------------------

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)

Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

13.25

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-10 Date 9/27/05 Time _____
 Well Diameter 2" Well Depth (spec.) _____ Well Depth (sounded) 20.00
 Depth to Water (static) 10.52 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____
 Initial height of water in casing 9.48 Volume 1.54 gallons
 Total to be evacuated = 3 x Initial Volume 4.63 gallons

Formulas/Conversions

r = well radius in ft
 h = ht of water col. in ft
 vol. in cyl. = $\pi r^2 h$
 $7.48 \text{ gal}/\text{ft}^3$
 $V_1 \text{ " casing} = 0.163 \text{ gal}/\text{ft}$
 $V_2 \text{ " casing} = 0.367 \text{ gal}/\text{ft}$
 $V_3 \text{ " casing} = 0.653 \text{ gal}/\text{ft}$
 $V_{10} \text{ " casing} = 0.826 \text{ gal}/\text{ft}$
 $V_{100} \text{ " casing} = 1.47 \text{ gal}/\text{ft}$

<u>Stop Time</u>	<u>Start Time</u>	<u>Bailed</u>	<u>Pumped</u>	<u>Cum. Gal.</u>

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6
Time						
Gallons						
Temp. (degree F)	<u>70.3</u>	<u>70.6</u>	<u>69.5</u>			
pH	<u>6.55</u>	<u>6.53</u>	<u>6.50</u>			
EC (umhos/cm)		<u>30</u>	<u>68</u>			
Special Conditions						

SAMPLES COLLECTED

Sample ID ml	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)

Cap Cages: Py = Polyseed; V = VOA/Teflon sepiia; M = Metal

10:30

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-11 Date 9/27/05 Time _____
 Well Diameter 2" Well Depth (spec.) _____ Well Depth (sounded) 20.00
 Depth to Water (static) 10.82 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Formulas/Conversions:r = well radius in fth = ht of water cut in ftvol. in cyl = $\pi r^2 h$ 7.48 gal/ft³ V_1 " casing = 0.163 gal/ft V_2 " casing = 0.367 gal/ft V_3 " casing = 0.653 gal/ft V_{12} " casing = 1.026 gal/ft V_{123} " casing = 1.42 gal/ft

Initial height of water in casing 9.18 Volume 1.49 gallons
 Total to be evacuated = $3 \times$ Initial Volume 4.48 gallons

<u>Stop Time</u>	<u>Start Time</u>	<u>Bailed</u>	<u>Pumped</u>	<u>Cum. Gal.</u>

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____

Description of sediments or material in sample: _____

Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
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Time _____

Gallons _____

Temp. (degrees F) 67.9 67.9 67.4

pH 6.50 6.47 6.47

EC (umhos/cm) 740 720 710

Special Conditions _____

SAMPLES COLLECTED

Sample ID ml	Bottle/cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)

Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal

10:50

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-12 Date 9/27/05 Time _____
 Well Diameter 2" Well Depth (spec.) _____ Well Depth (sounded) 20.00
 Depth to Water (static) 10.91 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____
 Initial height of water in casing 9.09 Volume 1.48 gallons
 Total to be evacuated = $3 \times$ Initial Volume 4.44 gallons

Formulas/Conversions
 r = well radius in ft
 h = ht of water col. in ft
 vol. in cyl. = $\pi r^2 h$
 7.48 gal/ft³
 $V_{2''}$ casing = 0.163 gal/ft
 $V_{3''}$ casing = 0.367 gal/ft
 $V_{4''}$ casing = 0.653 gal/ft
 $V_{5''}$ casing = 1.026 gal/ft
 $V_{6''}$ casing = 1.47 gal/ft

Cum. Gal.

Stop Time Start Time Bailed Pumped

Pumped or Bailed Dry? Yes No

After _____ gallons Recovery Rate _____

Water color _____ Odor _____

Description of sediments or material in sample: _____

Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
-------------	---	---	---	---	---	---	---

Time _____

Gallons _____

Temp. (degree F) 67.5 66.5 69.8

pH 6.41 6.39 6.45

EC (umhos/cm) — — 45

Special Conditions _____

SAMPLES COLLECTED

Sample ID ml	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested
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Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)

Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

10° OG

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MN-13 Date 9/27/05 Time _____
 Well Diameter 2 1/4 Well Depth (spec.) _____ Well Depth (sounded) 19.95
 Depth to Water (static) 11.80 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 8.15 Volume 1.32 gallons
 Total to be evacuated = $3 \times$ Initial Volume 3.98 gallons

Definitions/Conversions:
 $r =$ well radius in ft
 $h =$ ht of water col. in ft
 $\text{vol. in cyl.} = \pi r^2 h$
 7.48 gal/ft^3
 $V_{1/2} \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{1/4} \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{3/4} \text{ casing} = 0.653 \text{ gal/ft}$
 $V_1 \text{ casing} = 0.826 \text{ gal/ft}$
 $V_{1 1/2} \text{ casing} = 1.47 \text{ gal/ft}$

Stop Time	Start Time	Bailed	Pumped	Cum. Gal.

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
-------------	---	---	---	---	---	---	---

Time _____

Gallons _____

Temp. (degree F) 71.1 67.2 67.4

pH 6.58 6.57 6.57

EC (umhos/cm) 980 900 890

Special Conditions _____

SAMPLES COLLECTED

Sample ID ml	Bottle/cap	Filtered (size, U)	Preservative (type)	Refrig. (R, NR)	Lab (Inlt)	Analysis Requested
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WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-4
 Well Number MW-14 Date 9/07/05 Time _____
 Well Diameter 2" Well Depth (spec'd) _____ Well Depth (sounded) 20.10
 Depth to Water (static) 11.30 TOC elev.
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 8.80 Volume 1.43 gallons
 Total to be evacuated = $3 \times$ Initial Volume 4.30 gallons

Formulas/Conversions
 $r =$ well radius in ft
 $h =$ ht of water col. in ft
 $\text{vol. in cyl.} = \pi r^2 h$
 7.48 gal/ft^3
 $V_{1/2} \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{1/4} \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{1/8} \text{ casing} = 0.653 \text{ gal/ft}$
 $V_{1/16} \text{ casing} = 1.2826 \text{ gal/ft}$
 $V_{1/32} \text{ casing} = 1.47 \text{ gal/ft}$

Cum. Gal.

Stop Time Start Time Bailed Pumped

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
Time							
Gallons							
Temp. (degree F)	<u>69.6</u>	<u>67.5</u>	<u>67.3</u>				
pH	<u>6.54</u>	<u>6.49</u>	<u>6.50</u>				
EC ($\mu\text{mhos/cm}$)	<u>890</u>	<u>770</u>	<u>770</u>				

Special Conditions: _____

SAMPLES COLLECTED

Sample ID ml	Bottle/cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Inlt)	Analysis Requested

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)

Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

11:00

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-16 Date 9/27/05 Time _____
 Well Diameter 2" Well Depth (spec.) _____ Well Depth (sounded) 40.50
 Depth to Water (static) 11.21 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 29.29 Volume 4.77 gallons
 Total to be evacuated = $3 \times$ Initial Volume 14.32 gallons

Formulas/Conversions
 $r = \text{well radius in ft}$
 $h = \text{ht of water col. in ft}$
 $\text{vol. in cyl.} = \pi r^2 h$
 $7.48 \text{ gal}/\text{ft}^3$
 $V_{\frac{1}{2}}" \text{ casing} = 0.163 \text{ gal}/\text{ft}$
 $V_{\frac{1}{4}}" \text{ casing} = 0.367 \text{ gal}/\text{ft}$
 $V_{\frac{3}{4}}" \text{ casing} = 0.653 \text{ gal}/\text{ft}$
 $V_{1\frac{1}{2}}" \text{ casing} = 0.826 \text{ gal}/\text{ft}$
 $V_2" \text{ casing} = 1.47 \text{ gal}/\text{ft}$

Cum. Gal.

<u>Stop Time</u>	<u>Start Time</u>	<u>Bailed</u>	<u>Pumped</u>

Pumped or Bailed Dry? Yes X No After _____ gallons Recovery Rate _____

Water color _____ Odor _____

Description of sediments or material in sample: _____

Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
-------------	---	---	---	---	---	---	---

Time _____

Gallons _____

Temp. (degree F) 68.8 67.6 68.2

pH 6.49 6.50 6.50

EC (umhos/cm) 1090 1180 1190

Special Conditions _____

SAMPLES COLLECTED

Sample ID ml	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested
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Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)

Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

12.10

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-17 Date 9/27/05 Time _____
 Well Diameter 21 Well Depth (spec.) _____ Well Depth (sounded) 40.10
 Depth to Water (static) 13.54 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____
 Initial height of water in casing 26.56 Volume 432 gallons
 Total to be evacuated = 3 x Initial Volume 1298 gallons

Formulas/Conversions
 $r = \text{well radius in ft}$
 $h = \text{ht of water col. in ft}$
 $\text{vol. in cyl.} = \pi r^2 h$
 7.48 gal/ft^3
 $V_{1/2}'' \text{ casing} = 0.163 \text{ gal/ft}$
 $V_1'' \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{1.5}'' \text{ casing} = 0.653 \text{ gal/ft}$
 $V_{2.5}'' \text{ casing} = 1.026 \text{ gal/ft}$
 $V_4'' \text{ casing} = 1.47 \text{ gal/ft}$

<u>Stop Time</u>	<u>Start Time</u>	<u>Bailed</u>	<u>Pumped</u>	<u>Cum. Gal.</u>

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
Time							

Gallons

Temp. (degree F)	73.0	69.0	67.8				
------------------	------	------	------	--	--	--	--

pH	6.69	6.65	6.68				
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EC (umhos/cm)	1090	970	950				
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Special Conditions							
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SAMPLES COLLECTED

Sample ID ml	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)
 Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

12:35

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MN-15d30 Date 9/27/05 Time _____
 Well Diameter Mult-Level Well Depth (spec.) _____ Well Depth (sounded) 35.00
 Depth to Water (static) 12.42 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 22.58 Volume 0.02 gallons
 Total to be evacuated = 3 x Initial Volume 0.06 gallons

Formulas/Conversions
 $r = \text{well radius in ft}$
 $h = \text{ht of water col. in ft}$
 $\text{vol. in cyl.} = \pi r^2 h$
 $7.48 \text{ gal}/\text{ft}^3$
 $V_{2''} \text{ casing} = 0.163 \text{ gal}/\text{ft}$
 $V_{3''} \text{ casing} = 0.367 \text{ gal}/\text{ft}$
 $V_{4''} \text{ casing} = 0.653 \text{ gal}/\text{ft}$
 $V_{6''} \text{ casing} = 0.826 \text{ gal}/\text{ft}$
 $V_{8''} \text{ casing} = 1.47 \text{ gal}/\text{ft}$

Stop Time	Start Time	Bailed	Pumped	Cum. Gal.

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
-------------	---	---	---	---	---	---	---

Time _____

Gallons _____

Temp. (degree F) _____

pH _____

EC (umhos/cm) _____

Special Conditions _____

SAMPLES COLLECTED

Sample ID ml	Bottle/cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested
--------------	------------	--------------------	---------------------	-----------------	------------	--------------------

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)
 Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

15.90

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-15 d 60 Date 9/27/05 Time _____
 Well Diameter Multi-level Well Depth (spec.) _____ Well Depth (sounded) 65.00
 Depth to Water (static) 12.38 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 52.62

Volume 0.05 gallons

0.15 gallons

Total to be evacuated = 3 x Initial Volume

Formulas/Conversions

r = well radius in ft

h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$

7.48 gal/ft³

V_2 " casing = 0.163 gal/ft

V_3 " casing = 0.367 gal/ft

V_4 " casing = 0.653 gal/ft

V_5 " casing = 0.826 gal/ft

V_6 " casing = 1.47 gal/ft

<u>Stop Time</u>	<u>Start Time</u>	<u>Bailed</u>	<u>Pumped</u>	<u>Cum. Gal.</u>

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____

Water color _____ Odor _____

Description of sediments or material in sample: _____

Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
-------------	---	---	---	---	---	---	---

Time _____

Gallons _____

Temp. (degree F) _____

pH _____

EC (umhos/cm) _____

Special Conditions _____

SAMPLES COLLECTED

Sample ID ml	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested
--------------	----------------	-----------------------	------------------------	--------------------	---------------	-----------------------

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)
Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

15,35

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-15d 83 Date 9/27/05 Time _____
 Well Diameter MULTI-LEVEL Well Depth (spec.) _____ Well Depth (sounded) 88.00
 Depth to Water (static) 11.81 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 76.19 Volume 0.07 gallons
 Total to be evacuated = $3 \times$ Initial Volume 0.22 gallons

Formulas/Conversions
 $r = \text{well radius in ft}$
 $h = \text{ht of water col. in ft}$
 $\text{vol. in cyl.} = \pi r^2 h$
 7.48 gal/ft^3
 $V_{\frac{1}{2}}'' \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{\frac{1}{4}}'' \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{\frac{3}{4}}'' \text{ casing} = 0.653 \text{ gal/ft}$
 $V_1'' \text{ casing} = 0.826 \text{ gal/ft}$
 $V_{\frac{5}{8}}'' \text{ casing} = 1.47 \text{ gal/ft}$

<u>Stop Time</u>	<u>Start Time</u>	<u>Bailed</u>	<u>Pumped</u>	<u>Cum. Gal.</u>

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
Time							
Gallons							
Temp. (degree F)							
pH							
EC (umhos/cm)							
Special Conditions							

SAMPLES COLLECTED

Sample ID ml	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)
 Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

15:50

WATER SAMPLING DATA

Job Name BENNETT VALLEY Job Number 98-511-14
 Well Number MW-15d 140 Date 9/27/05 Time _____
 Well Diameter 10 IN - HOLLOW Well Depth (spec.) _____ Well Depth (sounded) 145.00
 Depth to Water (static) 12.40 TOC elev. _____
 G.W. Elev. _____ Maximum Drawdown Limit (if applicable) _____

Initial height of water in casing 132.66 Volume 0.13 gallons
 Total to be evacuated = $3 \times$ Initial Volume 0.39 gallons

Formulas/Conversions
 r = well radius in ft
 h = ht of water col. in ft
 vol. in cyl. = $\pi r^2 h$
 7.48 gal/ft³
 $V_{2\frac{1}{2}}$ " casing = 0.163 gal/ft
 $V_{3\frac{1}{2}}$ " casing = 0.367 gal/ft
 $V_{4\frac{1}{2}}$ " casing = 0.653 gal/ft
 $V_{5\frac{1}{2}}$ " casing = 0.826 gal/ft
 $V_{6\frac{1}{2}}$ " casing = 1.47 gal/ft

<u>Stop Time</u>	<u>Start Time</u>	<u>Bailed</u>	<u>Pumped</u>	<u>Cum. Gal.</u>

Pumped or Bailed Dry? Yes No After _____ gallons Recovery Rate _____
 Water color _____ Odor _____
 Description of sediments or material in sample: _____
 Additional Comments: _____

CHEMICAL DATA

Reading No.	1	2	3	4	5	6	7
-------------	---	---	---	---	---	---	---

Time _____

Gallons _____

Temp. (degree F) _____

pH _____

EC (umhos/cm) _____

Special Conditions _____

SAMPLES COLLECTED

Sample ID ml	Bottle/ cap	Filtered (size, u)	Preservative (type)	Refrig. (R, NR)	Lab (Init)	Analysis Requested
--------------	----------------	-----------------------	------------------------	--------------------	---------------	-----------------------

Bottles: P = Polyethylene; Pp = Polypropylene; C or B = Clear/Brown Glass; O = Other (describe)
 Cap Codes: Py = Polyseal; V = VOA/Teflon septa; M = Metal.

16,00